

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030819\  
 Data File : VL033270.D  
 Acq On : 9 Mar 2019 00:02  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleID :  
 VSTDCCC010EC

Manual Integrations  
 APPROVED

MMDadoda  
 3/11/2019 10:10:31 AM

Quant Time: Mar 09 05:11:57 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030819AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Sat Mar 09 05:11:57 2019  
 QLast Update : Sat Mar 09 03:32:03 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.76  | 49   | 907801   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.30  | 114  | 2068436  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.24 | 117  | 2571757m | 10.00 | ppbv  | 0.00     |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 14.58  | 95    | 1964984  | 9.52     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 95.20% |

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 3.08 | 85   | 1633452  | 9.518  | ppbv  | 99     |
| 3) Chlorodifluoromethane       | 3.02 | 51   | 991123   | 9.627  | ppbv  | 99     |
| 4) Chloromethane               | 3.17 | 50   | 522006   | 9.731  | ppbv  | 99     |
| 5) Vinyl Chloride              | 3.29 | 62   | 511898   | 9.517  | ppbv  | 95     |
| 6) Bromomethane                | 3.52 | 94   | 323754   | 9.787  | ppbv  | 98     |
| 7) Chloroethane                | 3.60 | 64   | 197684   | 10.165 | ppbv  | 98     |
| 8) Dichlorotetrafluoroethane   | 3.22 | 85   | 1256473  | 9.367  | ppbv  | 100    |
| 9) Propene                     | 3.04 | 41   | 435379   | 9.585  | ppbv  | 99     |
| 10) Heptane                    | 8.25 | 43   | 1165564  | 9.396  | ppbv  | 99     |
| 11) Trichlorofluoromethane     | 4.01 | 101  | 1509371  | 10.069 | ppbv  | 99     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.55 | 101  | 990858   | 10.059 | ppbv  | 99     |
| 13) Ethanol                    | 3.65 | 45   | 89412m   | 6.801  | ppbv  |        |
| 14) Bromoethene                | 3.79 | 108  | 404322   | 9.998  | ppbv  | 99     |
| 15) Acetone                    | 3.90 | 43   | 1042417  | 9.676  | ppbv  | 100    |
| 16) 1,3-Butadiene              | 3.36 | 39   | 414378   | 9.273  | ppbv  | 88     |
| 17) tert-Butyl alcohol         | 4.35 | 59   | 156972m  | 8.935  | ppbv  |        |
| 18) 1,1-Dichloroethene         | 4.35 | 96   | 431449   | 10.004 | ppbv  | 97     |
| 19) Isopropyl Alcohol          | 4.02 | 45   | 561644   | 8.683  | ppbv  | 99     |
| 20) Methylene Chloride         | 4.41 | 84   | 372395   | 8.422  | ppbv  | 96     |
| 21) Allyl Chloride             | 4.48 | 41   | 688100   | 10.636 | ppbv  | 99     |
| 22) trans-1,2-Dichloroethene   | 4.97 | 96   | 457938   | 10.353 | ppbv  | 98     |
| 23) Vinyl Acetate              | 5.16 | 43   | 1667750  | 10.807 | ppbv  | 98     |
| 24) 1,1-Dichloroethane         | 5.09 | 63   | 1127652  | 9.954  | ppbv  | 99     |
| 25) Ethyl Acetate              | 5.77 | 43   | 1903449  | 9.252  | ppbv  | 100    |
| 26) Hexane                     | 5.78 | 57   | 846679   | 8.734  | ppbv  | 99     |
| 27) Carbon Disulfide           | 4.62 | 76   | 1128359  | 11.493 | ppbv  | 99     |
| 28) Methyl tert-Butyl Ether    | 5.12 | 73   | 1267486  | 10.177 | ppbv  | 100    |
| 29) Chloroform                 | 5.85 | 83   | 1404790  | 9.496  | ppbv  | 100    |
| 30) Cyclohexane                | 7.25 | 84   | 709729   | 9.456  | ppbv  | 99     |
| 31) cis-1,2-Dichloroethene     | 5.64 | 61   | 897983   | 9.779  | ppbv  | 98     |
| 32) 1,1,1-Trichloroethane      | 6.62 | 97   | 1385261  | 9.915  | ppbv  | 99     |
| 34) 2-Butanone                 | 5.33 | 43   | 1268291  | 10.143 | ppbv  | 100    |
| 35) Carbon Tetrachloride       | 7.14 | 117  | 1464806  | 10.433 | ppbv  | 97     |
| 36) Benzene                    | 7.01 | 78   | 1787460  | 10.038 | ppbv  | 99     |
| 37) 1,2-Dichloroethane         | 6.42 | 62   | 1108708  | 9.669  | ppbv  | 100    |
| 38) Trichloroethene            | 7.96 | 130  | 673668   | 9.749  | ppbv  | 99     |
| 39) 1,2-Dichloropropane        | 7.74 | 63   | 684073   | 9.784  | ppbv  | 99     |
| 40) 1,4-Dioxane                | 7.96 | 88   | 225741   | 8.760  | ppbv  | 86     |
| 41) Tetrahydrofuran            | 6.15 | 42   | 731780   | 10.358 | ppbv  | 99     |
| 42) Bromodichloromethane       | 7.92 | 83   | 1576740  | 10.096 | ppbv  | 100    |
| 43) Methyl Methacrylate        | 8.14 | 69   | 734767   | 10.256 | ppbv  | 99     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030819\  
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 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Manual Integrations  
 APPROVED

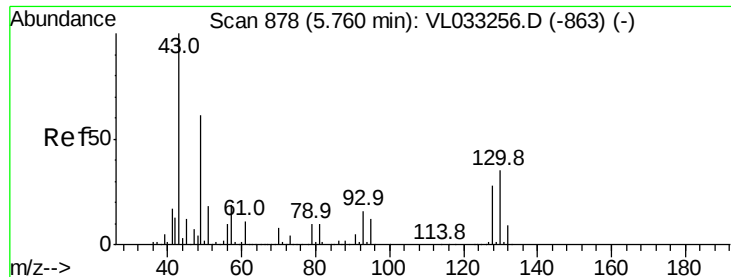
MMDadoda  
 3/11/2019 10:10:31 AM

Quant Time: Mar 09 05:11:57 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030819AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Sat Mar 09 05:11:57 2019  
 QLast Update : Sat Mar 09 03:32:03 2019  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| 44) 2,2,4-Trimethylpentane    | 7.99  | 57   | 3043568  | 9.618  | ppbv   | 100      |
| 45) t-1,3-Dichloropropene     | 9.42  | 75   | 996325   | 11.483 | ppbv   | 98       |
| 46) cis-1,3-Dichloropropene   | 8.84  | 75   | 1106846  | 10.839 | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 9.61  | 97   | 735095   | 9.796  | ppbv   | 97       |
| 48) Dibromochloromethane      | 10.45 | 129  | 1321452  | 10.742 | ppbv   | 100      |
| 49) Bromoform                 | 13.20 | 173  | 1310567  | 11.970 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.87  | 43   | 1870535  | 9.887  | ppbv   | 100      |
| 51) 2-Hexanone                | 10.27 | 43   | 1501050  | 10.643 | ppbv # | 100      |
| 52) Tetrachloroethene         | 11.37 | 164  | 738771   | 11.134 | ppbv   | 98       |
| 53) Toluene                   | 9.95  | 91   | 2121099  | 10.400 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.76 | 107  | 1173160  | 9.981  | ppbv   | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 12.28 | 131  | 1033353  | 9.599  | ppbv # | 63       |
| 57) Chlorobenzene             | 12.30 | 112  | 1755016  | 9.306  | ppbv   | 97       |
| 58) Ethyl Benzene             | 12.87 | 91   | 3376976  | 9.705  | ppbv   | 100      |
| 59) m/p-Xylene                | 13.15 | 91   | 5601530m | 17.782 | ppbv   |          |
| 60) o-Xylene                  | 13.85 | 91   | 2739225  | 8.981  | ppbv   | 100      |
| 61) Styrene                   | 13.69 | 104  | 2035527  | 9.809  | ppbv   | 100      |
| 62) Isopropylbenzene          | 14.83 | 105  | 3827712  | 9.398  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.84 | 83   | 1864365  | 9.503  | ppbv   | 100      |
| 64) n-propylbenzene           | 15.72 | 120  | 962100   | 9.660  | ppbv   | 100      |
| 65) tert-Butylbenzene         | 16.91 | 119  | 3302617  | 9.641  | ppbv   | 100      |
| 66) Benzyl Chloride           | 17.16 | 91   | 1684631  | 13.125 | ppbv   | 100      |
| 67) sec-Butylbenzene          | 17.46 | 105  | 4695733  | 9.642  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.82 | 119  | 3836144  | 9.705  | ppbv   | 100      |
| 70) n-Butylbenzene            | 18.71 | 91   | 4015164  | 9.372  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 15.62 | 91   | 2962428  | 9.721  | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 16.00 | 105  | 3145092  | 9.903  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 16.16 | 105  | 3001740  | 9.921  | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene    | 16.93 | 105  | 3036773  | 9.644  | ppbv   | 95       |
| 75) 1,3-Dichlorobenzene       | 17.17 | 146  | 1725269  | 9.272  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.31 | 146  | 1727906  | 9.483  | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 17.99 | 146  | 1655561  | 9.242  | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 23.55 | 225  | 1324206  | 9.759  | ppbv   | 100      |
| 79) Naphthalene               | 22.41 | 128  | 3237555  | 9.430  | ppbv   | 99       |
| 80) Naphthalene, 2-methyl-    | 25.11 | 142  | 1782645  | 21.217 | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 22.14 | 180  | 1539912  | 8.697  | ppbv   | 100      |
| -----                         |       |      |          |        |        |          |

(#) = qualifier out of range (m) = manual integration (+) = signals summed





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. 0.00 min

Lab File: VL033270.D

Acq: 9 Mar 2019 00:02

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 907801

Ion Ratio Lower Upper

49 100

128 45.6 22.5 67.5

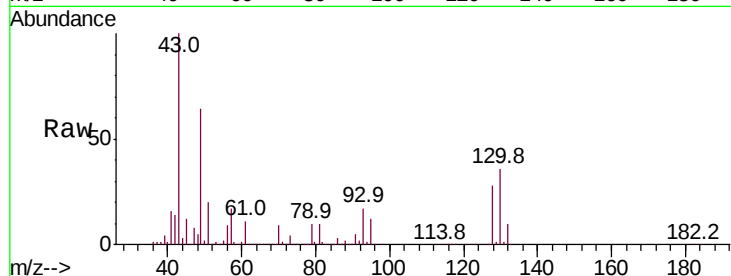
130 59.2 29.1 87.4

Manual Integrations

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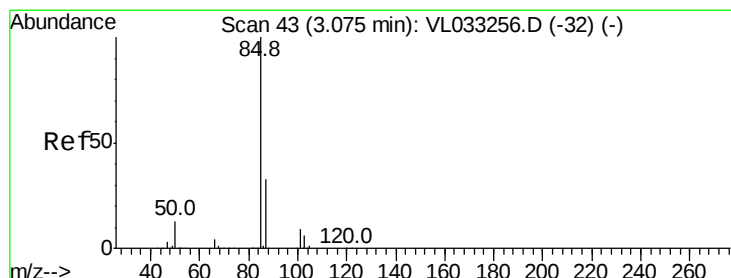
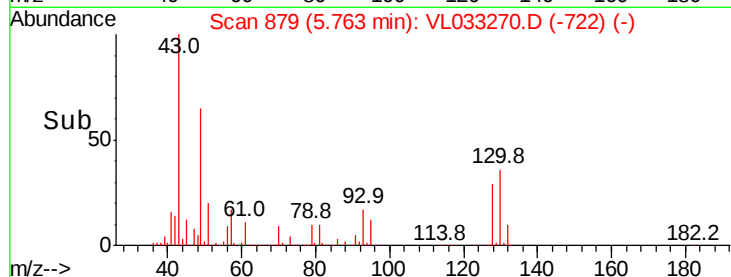
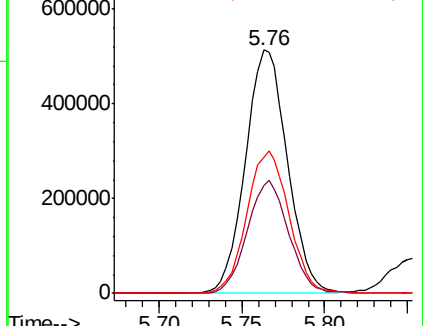
3/11/2019 10:10:31 AM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 9.518 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033270.D

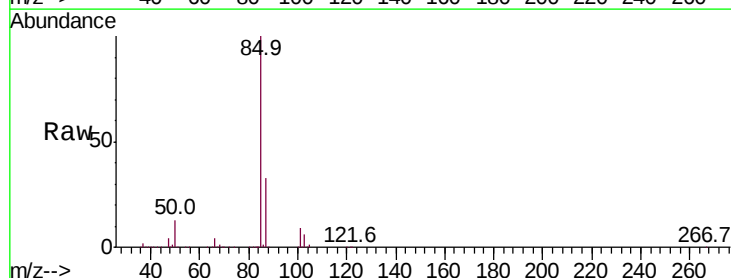
Acq: 9 Mar 2019 00:02

Tgt Ion: 85 Resp: 1633452

Ion Ratio Lower Upper

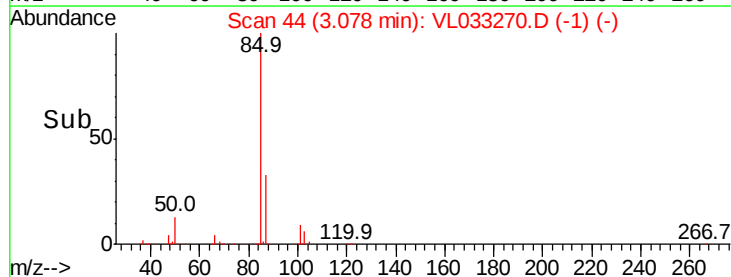
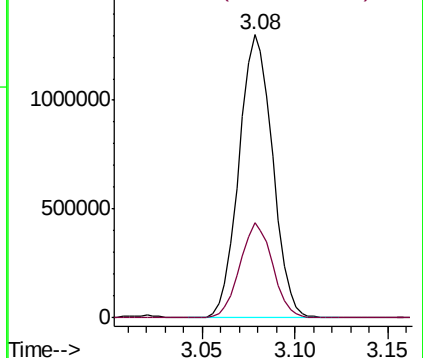
85 100

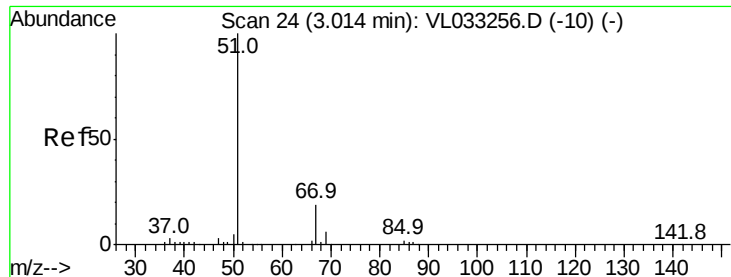
87 33.4 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.627 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL033270.D

Acq: 9 Mar 2019 00:02

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 51 Resp: 991123

Ion Ratio Lower Upper

51 100

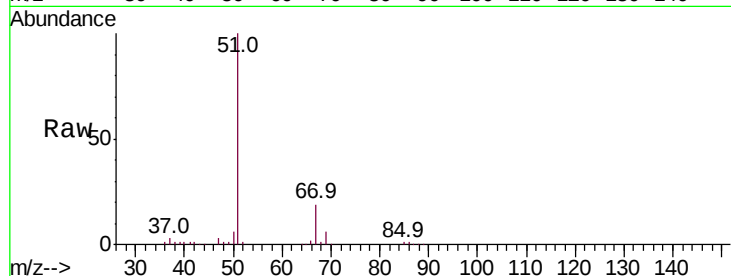
67 19.2 15.0 22.6

Manual Integrations

APPROVED

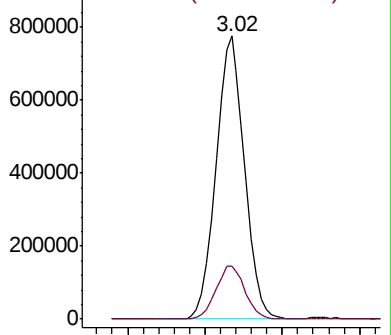
MMDadoda

3/11/2019 10:10:31 AM

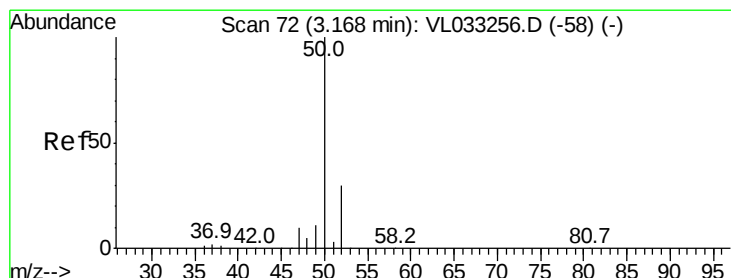
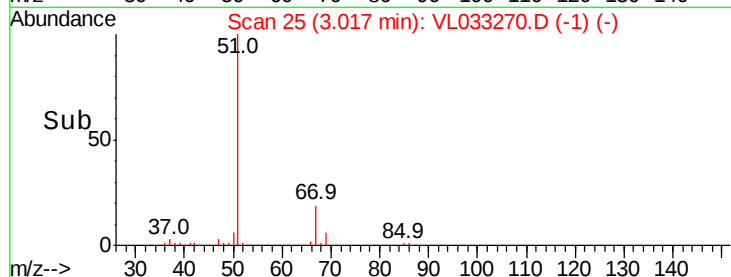


Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



Time-->



#4

Chloromethane

Concen: 9.731 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033270.D

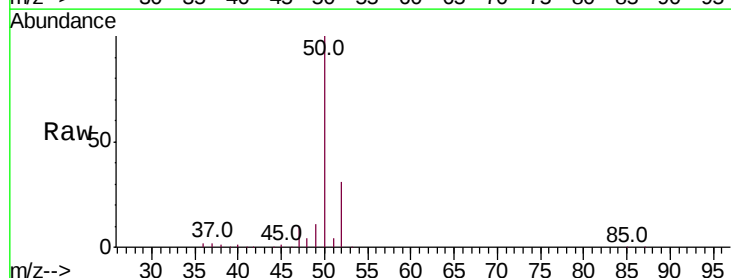
Acq: 9 Mar 2019 00:02

Tgt Ion: 50 Resp: 522006

Ion Ratio Lower Upper

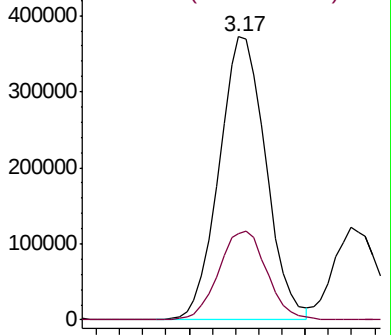
50 100

52 30.7 24.2 36.2

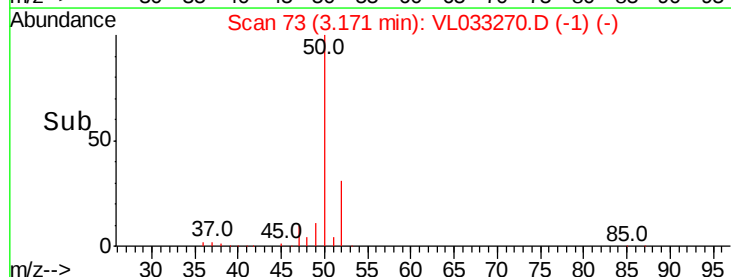


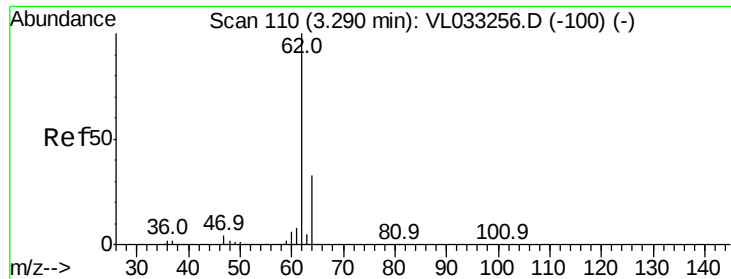
Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



Time-->





#5

Vinyl Chloride

Concen: 9.517 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033270.D

Acq: 9 Mar 2019 00:02

Tot Ion: 62 Resp: 511898

Ion Ratio Lower Upper

62 100

64 30.3 26.4 39.6

Instrument :

MSVOA\_L

ClientSampleId :

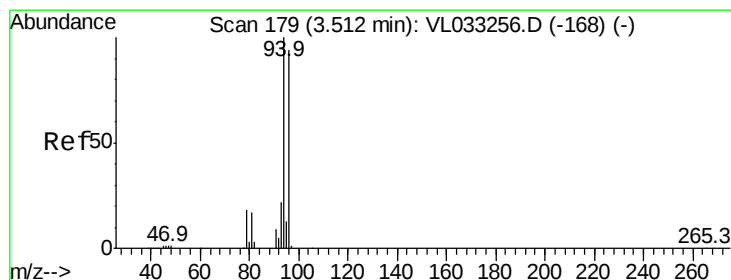
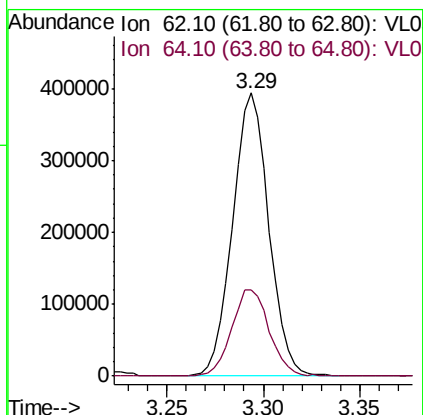
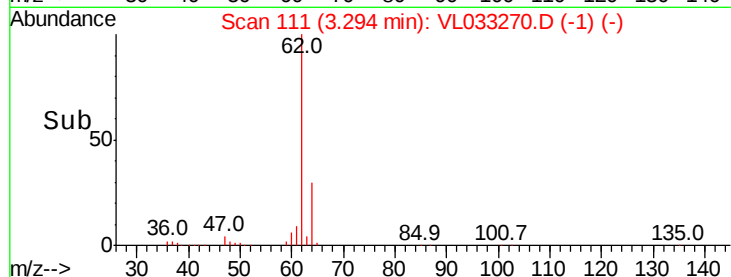
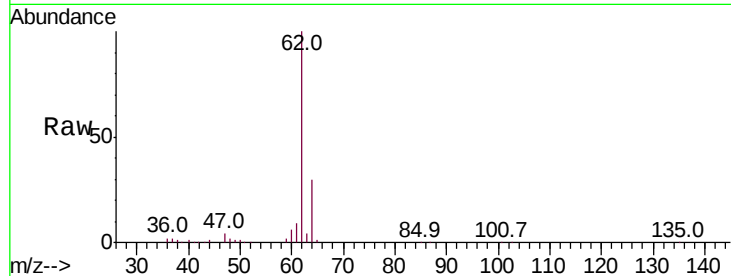
VSTDCCC010EC

Manual Integrations

APPROVED

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3/11/2019 10:10:31 AM



#6

Bromomethane

Concen: 9.787 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033270.D

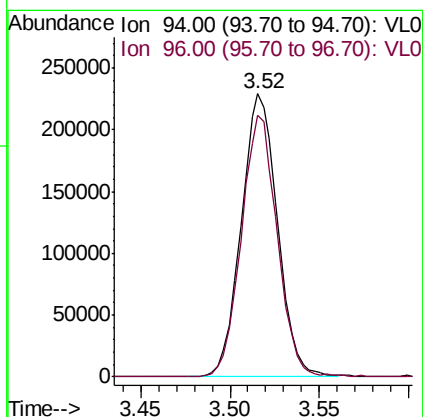
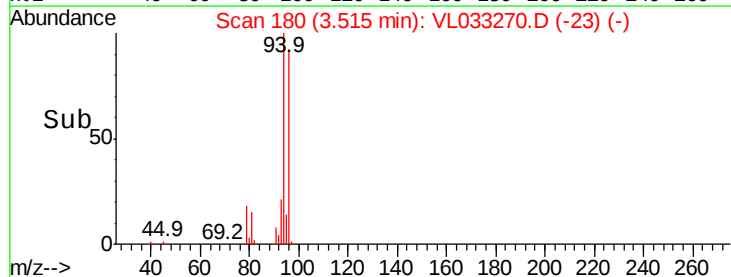
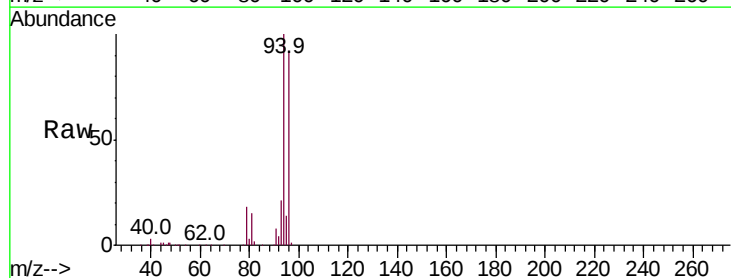
Acq: 9 Mar 2019 00:02

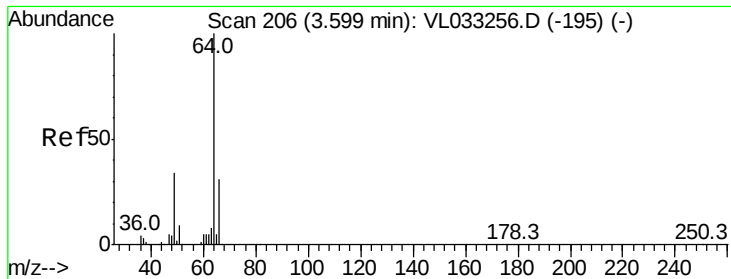
Tgt Ion: 94 Resp: 323754

Ion Ratio Lower Upper

94 100

96 92.3 75.3 112.9





#7

Chloroethane

Concen: 10.165 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL033270.D

Acq: 9 Mar 2019 00:02

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 197684

Ion Ratio Lower Upper

64 100

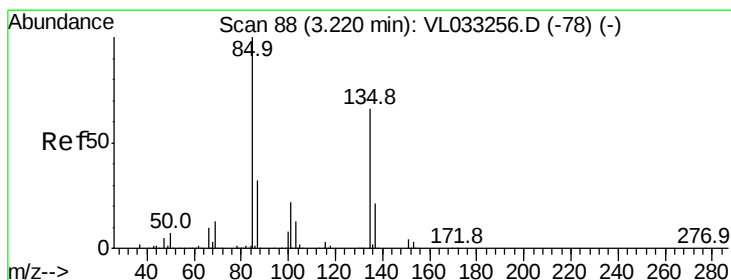
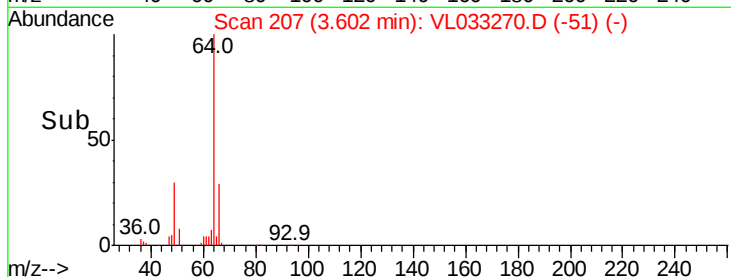
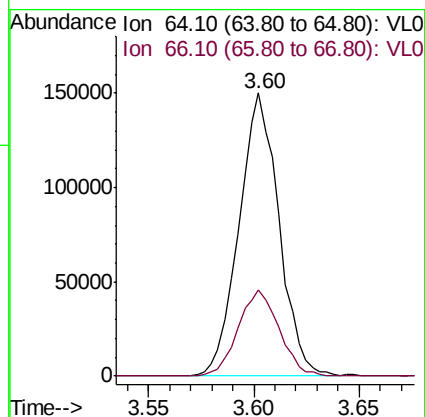
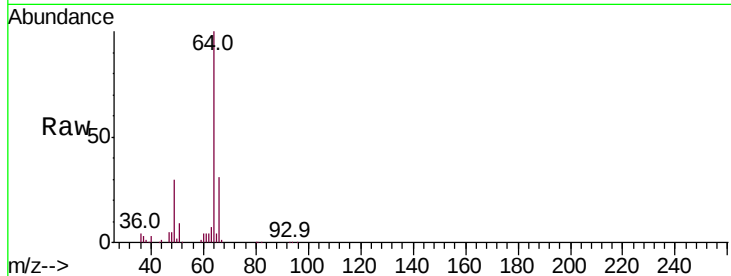
66 30.6 25.2 37.8

Manual Integrations

APPROVED

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3/11/2019 10:10:31 AM



#8

Dichlorotetrafluoroethane

Concen: 9.367 ppbv

RT: 3.22 min Scan# 89

Delta R.T. 0.00 min

Lab File: VL033270.D

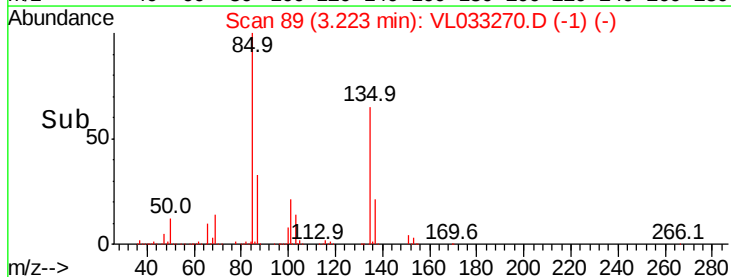
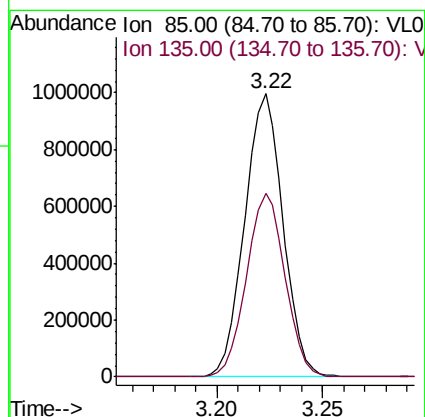
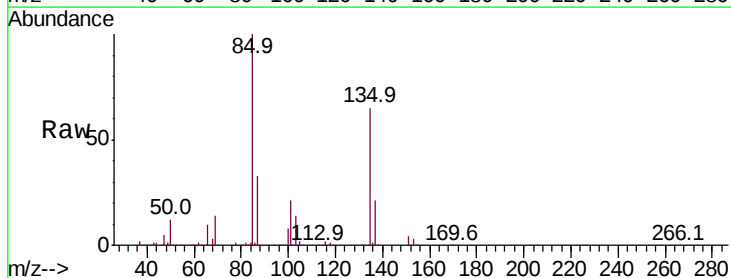
Acq: 9 Mar 2019 00:02

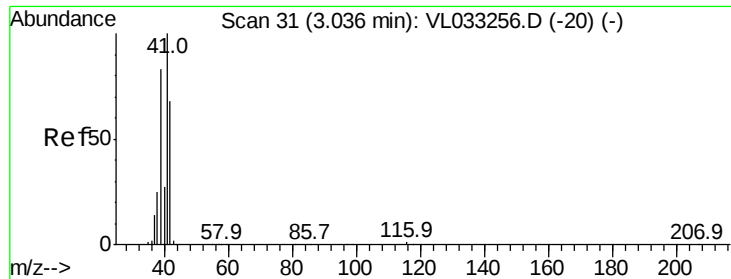
Tgt Ion: 85 Resp: 1256473

Ion Ratio Lower Upper

85 100

135 65.3 52.3 78.5





#9

Propene

Concen: 9.585 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.00 min

Lab File: VL033270.D

Acq: 9 Mar 2019 00:02

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 435379

Ion Ratio Lower Upper

41 100

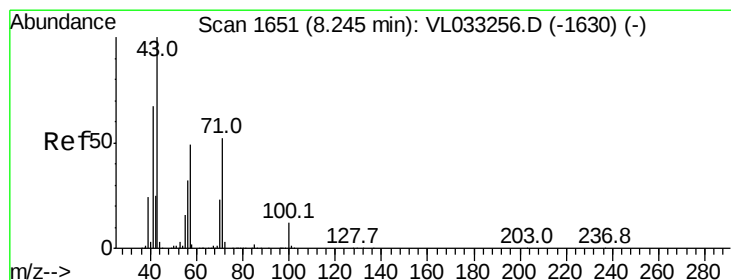
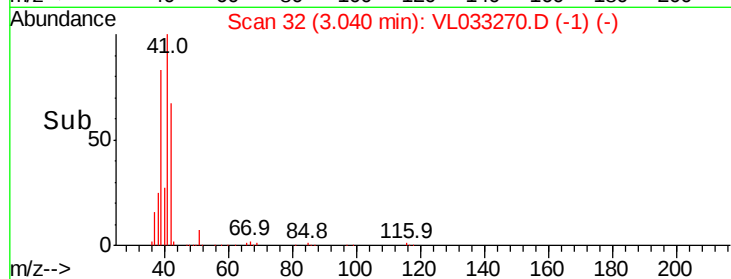
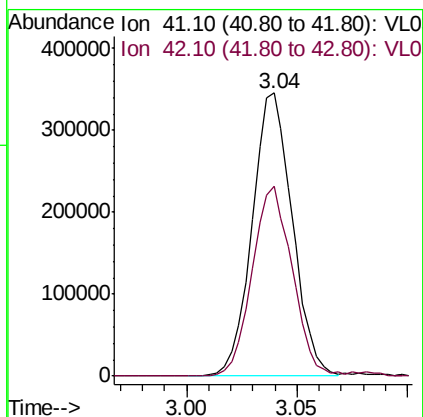
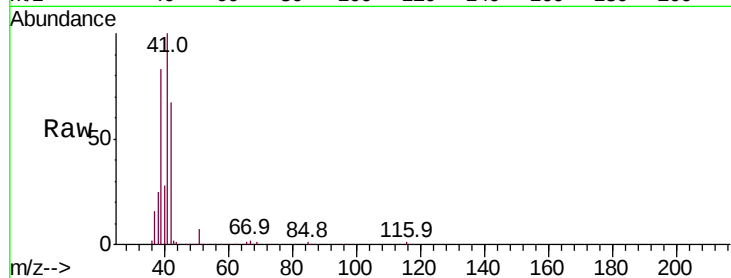
42 68.4 55.2 82.8

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#10

Heptane

Concen: 9.396 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. 0.00 min

Lab File: VL033270.D

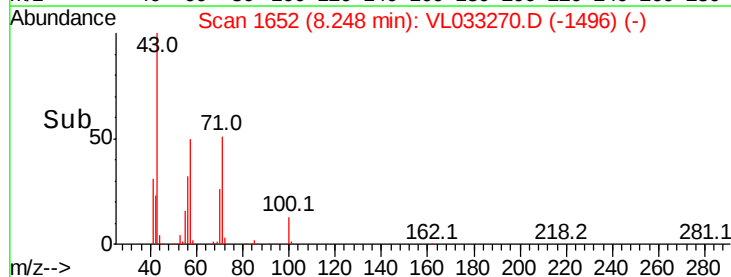
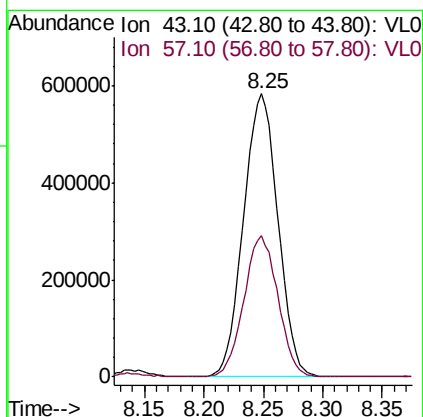
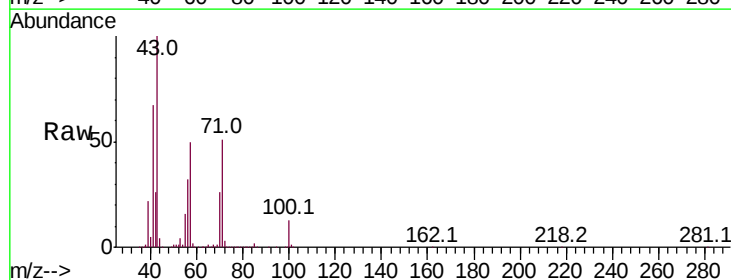
Acq: 9 Mar 2019 00:02

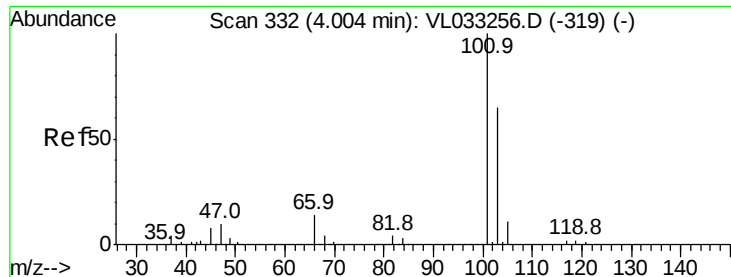
Tgt Ion: 43 Resp: 1165564

Ion Ratio Lower Upper

43 100

57 49.4 40.0 60.0





#11

Trichlorofluoromethane

Concen: 10.069 ppbv

RT: 4.01 min Scan# 333

Delta R.T. 0.00 min

Lab File: VL033270.D

Acq: 9 Mar 2019 00:02

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:101 Resp: 1509371

Ion Ratio Lower Upper

101 100

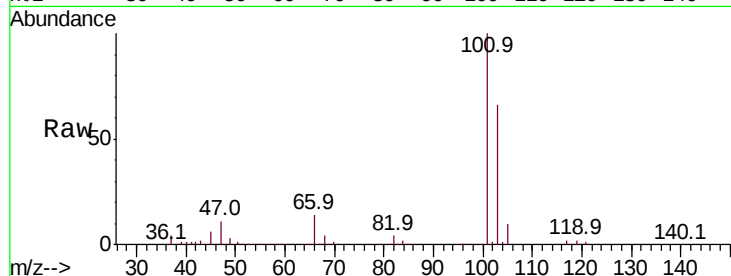
103 65.6 51.9 77.9

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

1200000

1000000

800000

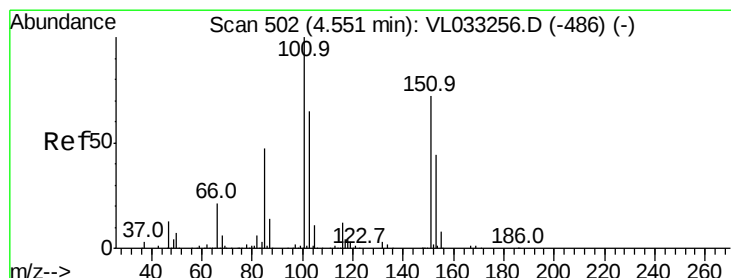
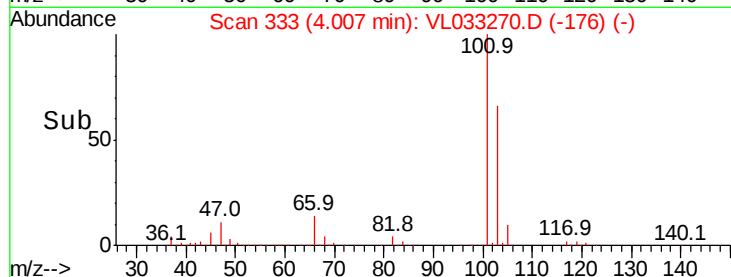
600000

400000

200000

0

Time-->



#12

1,1,2-Trichlorotrifluoroethane

Concen: 10.059 ppbv

RT: 4.55 min Scan# 503

Delta R.T. 0.00 min

Lab File: VL033270.D

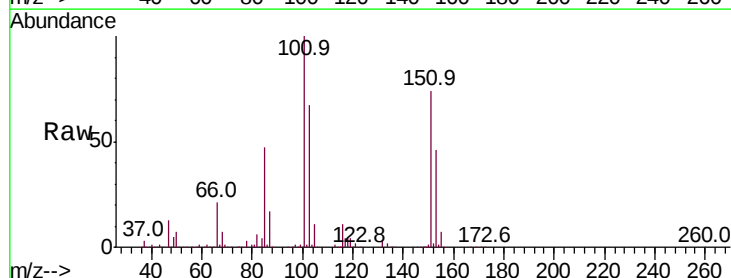
Acq: 9 Mar 2019 00:02

Tgt Ion:101 Resp: 990858

Ion Ratio Lower Upper

101 100

151 70.5 57.2 85.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

600000

500000

400000

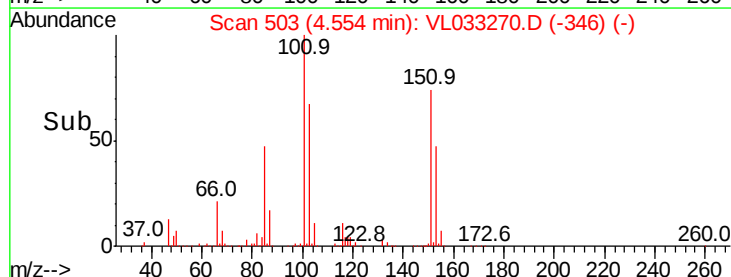
300000

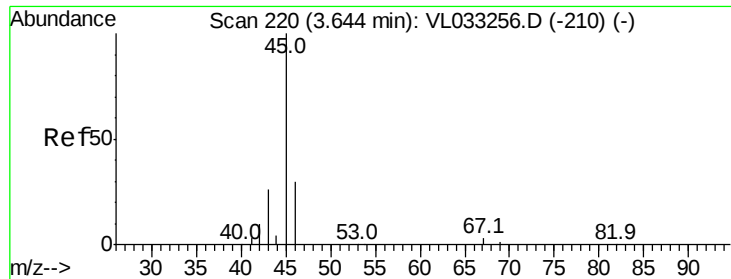
200000

100000

0

Time-->





#13

Ethanol

Concen: 6.801 ppbv m

RT: 3.65 min Scan# 222

Delta R.T. 0.01 min

Lab File: VL033270.D

Acq: 9 Mar 2019 00:02

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 89412

Ion Ratio Lower Upper

45 100

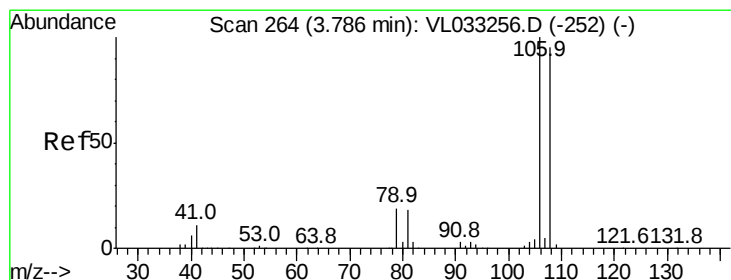
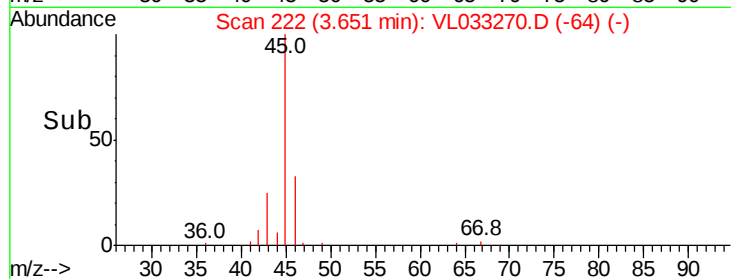
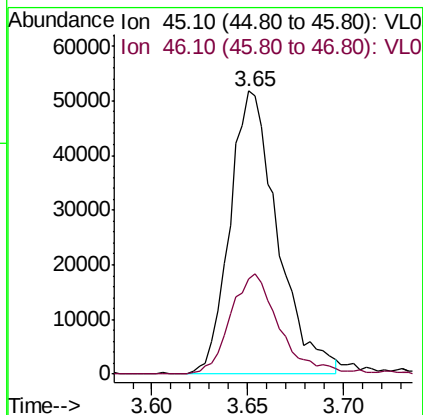
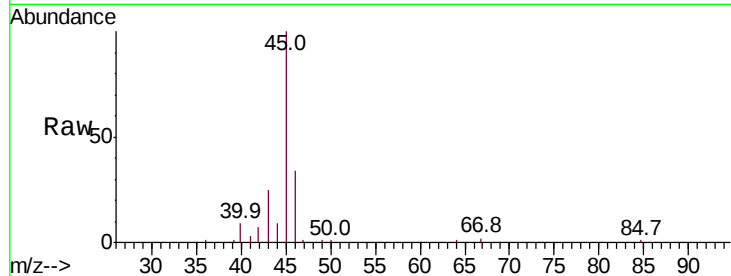
46 37.1 14.9 59.7

Manual Integrations

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#14

Bromoethene

Concen: 9.998 ppbv

RT: 3.79 min Scan# 265

Delta R.T. 0.00 min

Lab File: VL033270.D

Acq: 9 Mar 2019 00:02

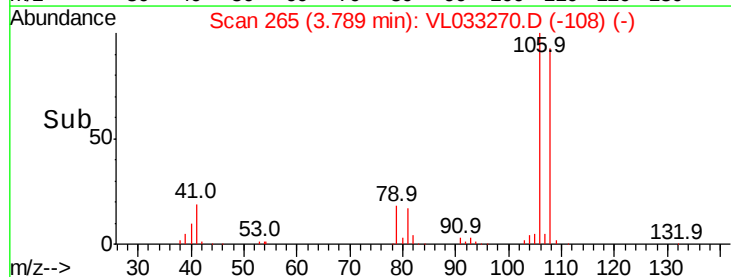
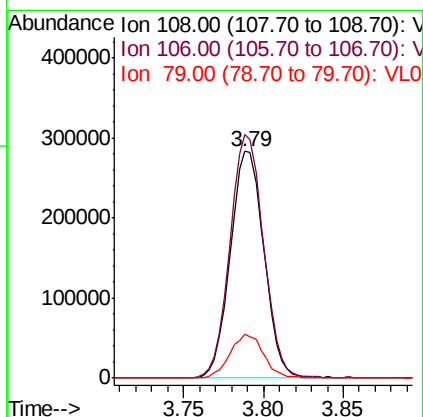
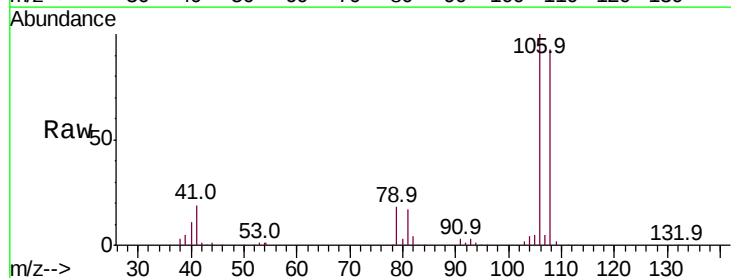
Tgt Ion: 108 Resp: 404322

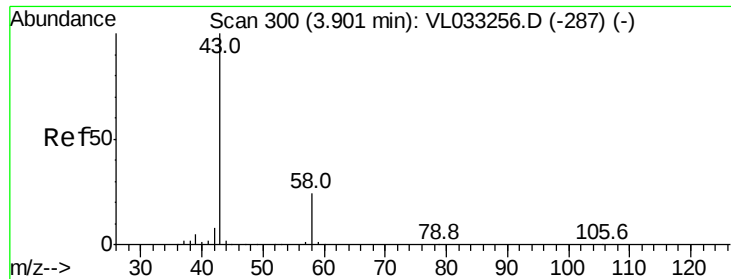
Ion Ratio Lower Upper

108 100

106 107.0 86.9 130.3

79 19.7 15.8 23.6





#15

Acetone

Concen: 9.676 ppbv

RT: 3.90 min Scan# 301

Delta R.T. 0.00 min

Lab File: VL033270.D

Acq: 9 Mar 2019 00:02

Tot Ion: 43 Resp: 1042417

Ion Ratio Lower Upper

43 100

58 25.5 20.2 30.2

Instrument :

MSVOA\_L

ClientSampleId :

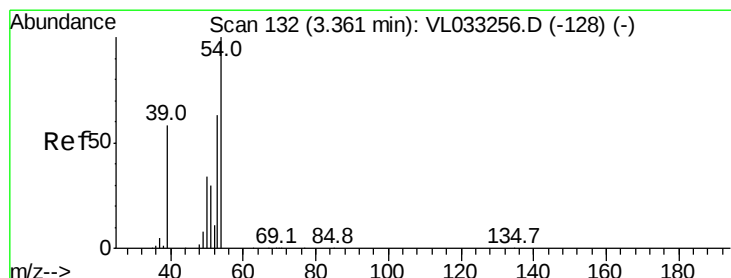
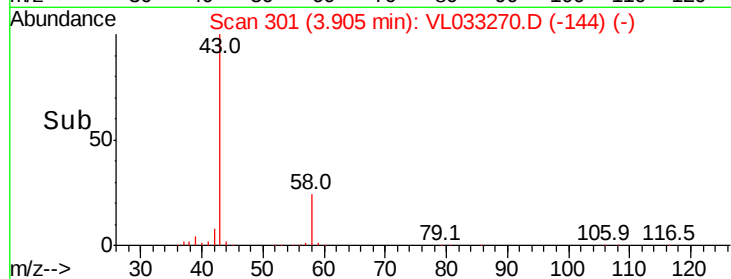
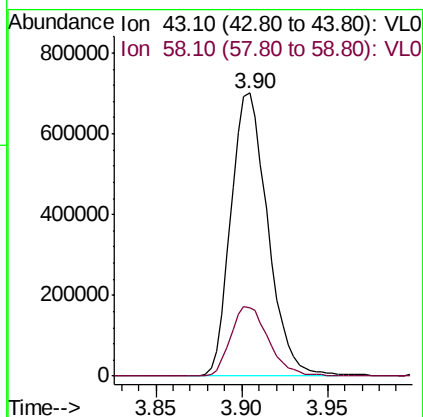
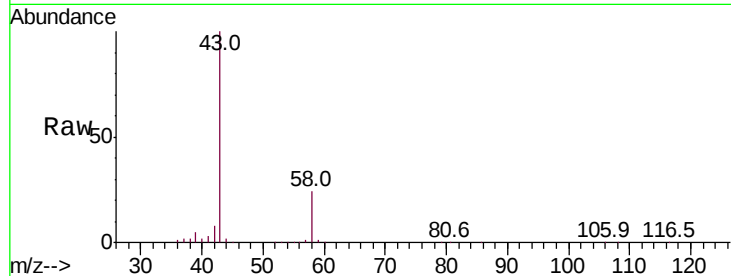
VSTDCCC010EC

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#16

1,3-Butadiene

Concen: 9.273 ppbv

RT: 3.36 min Scan# 133

Delta R.T. 0.00 min

Lab File: VL033270.D

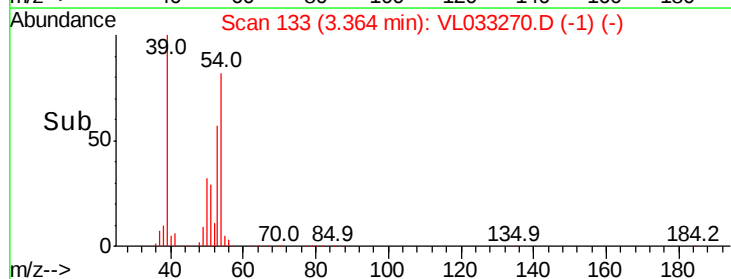
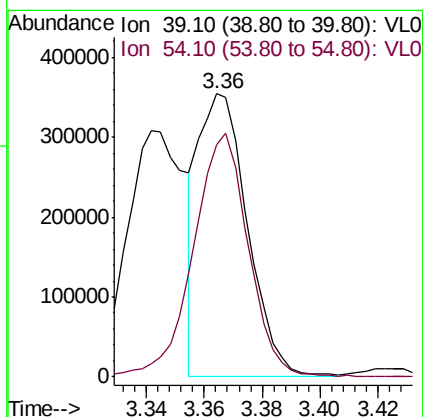
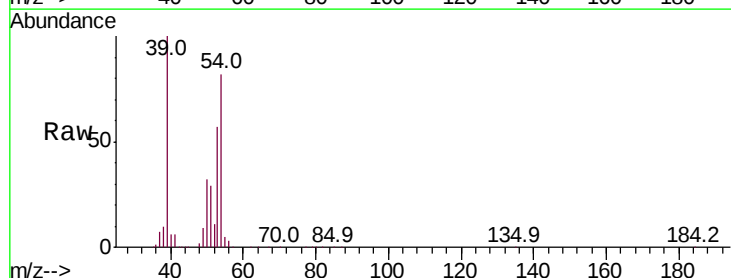
Acq: 9 Mar 2019 00:02

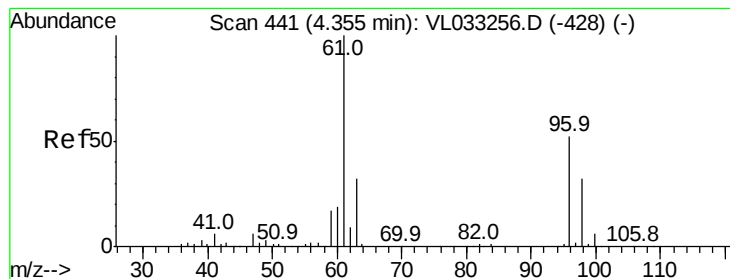
Tgt Ion: 39 Resp: 414378

Ion Ratio Lower Upper

39 100

54 97.2 68.6 103.0





#17

tert-Butyl alcohol

Concen: 8.935 ppbv

RT: 4.35 min Scan# 441

Delta R.T. 0.00 min

Lab File: VL033270.D

Acq: 9 Mar 2019 00:02

Instrument :

MSVOA\_L

ClientSampleID :

VSTDCCC010EC

Tot Ion: 59 Resp: 156972

Ion Ratio Lower Upper

59 100

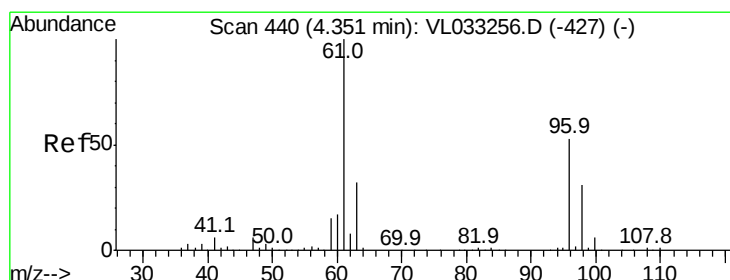
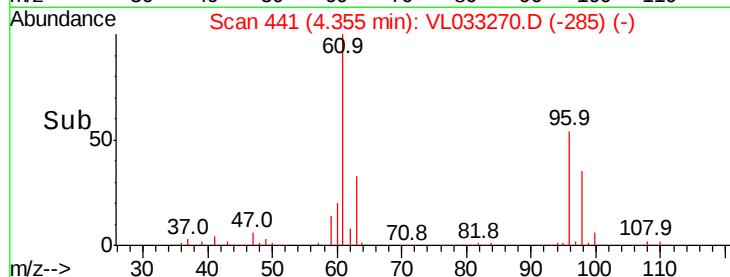
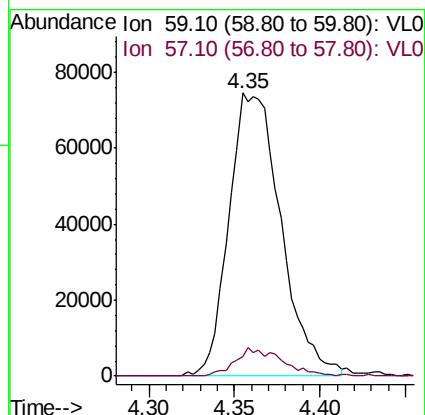
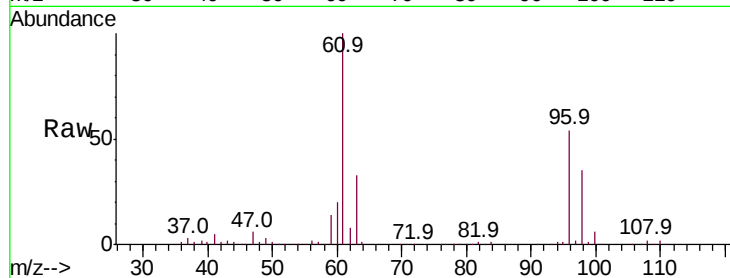
57 1.3 7.2 10.8#

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#18

1,1-Dichloroethene

Concen: 10.004 ppbv

RT: 4.35 min Scan# 441

Delta R.T. 0.00 min

Lab File: VL033270.D

Acq: 9 Mar 2019 00:02

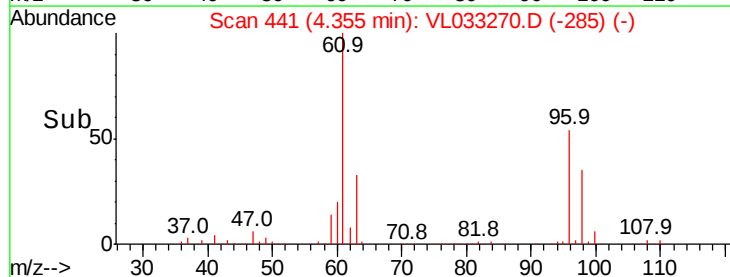
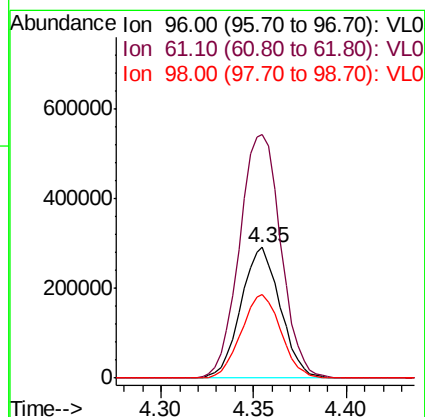
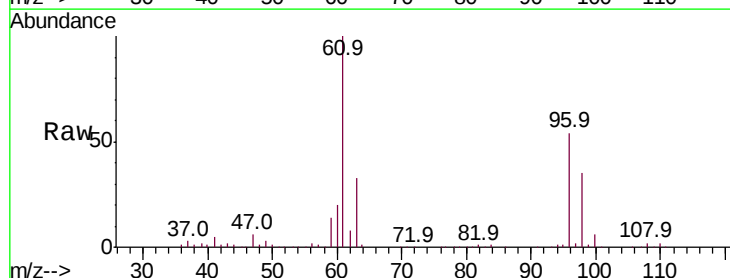
Tgt Ion: 96 Resp: 431449

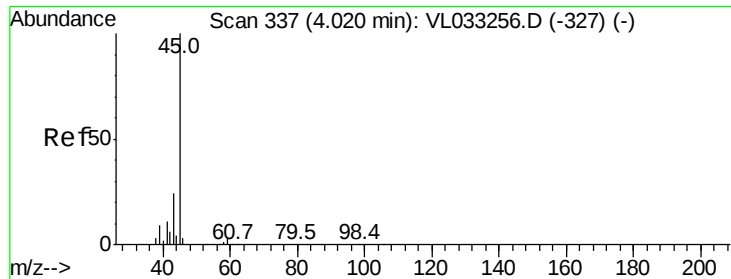
Ion Ratio Lower Upper

96 100

61 186.6 150.6 226.0

98 64.4 47.0 70.4





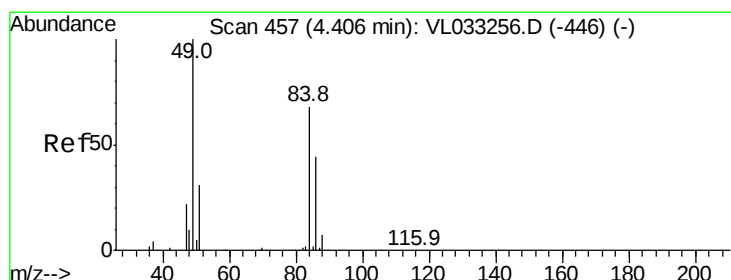
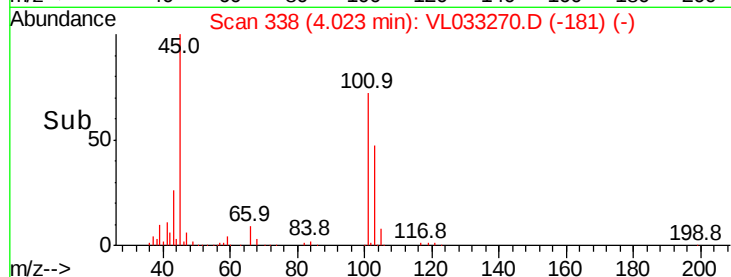
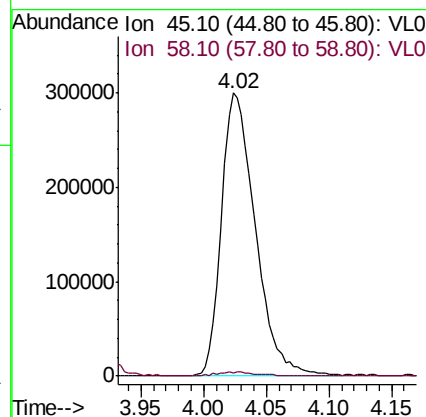
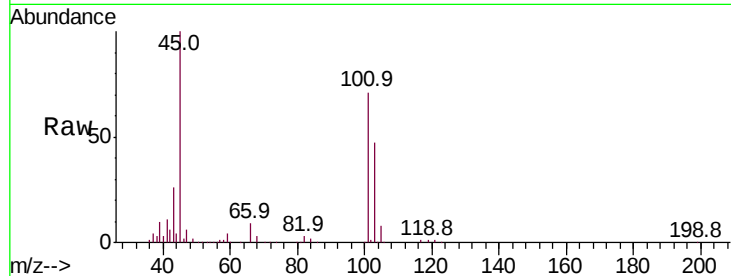
#19  
Isopropyl Alcohol  
Concen: 8.683 ppbv  
RT: 4.02 min Scan# 338  
Delta R.T. 0.00 min  
Lab File: VL033270.D  
Acq: 9 Mar 2019 00:02

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Tot Ion: 45 Resp: 561644  
Ion Ratio Lower Upper  
45 100  
58 2.2 1.5 2.3

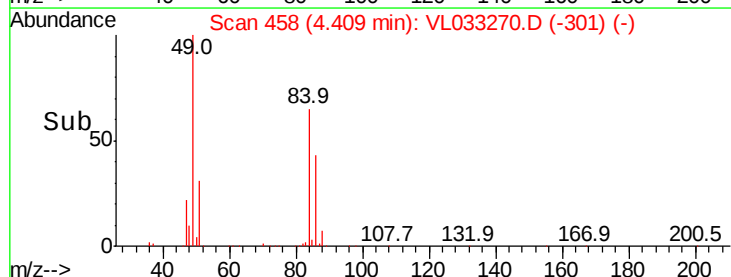
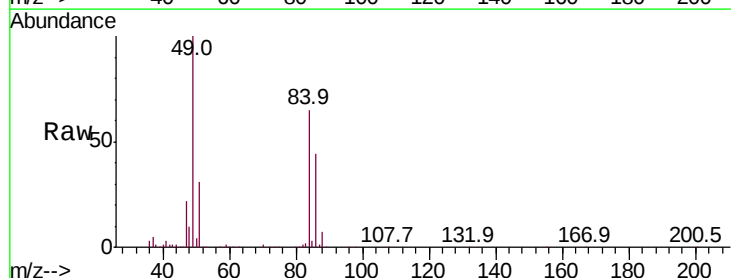
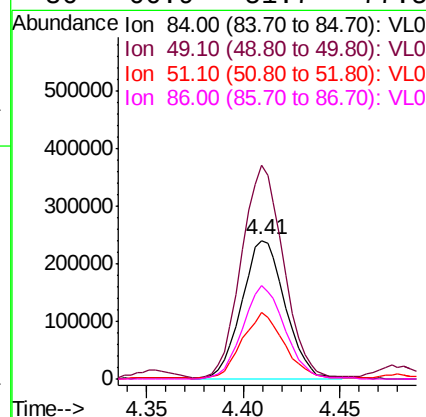
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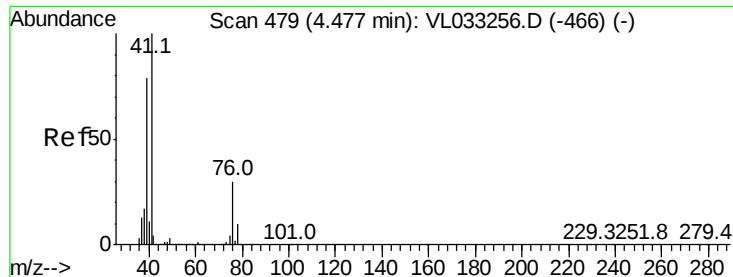
MMDadoda  
3/11/2019 10:10:31 AM



#20  
Methylene Chloride  
Concen: 8.422 ppbv  
RT: 4.41 min Scan# 458  
Delta R.T. 0.00 min  
Lab File: VL033270.D  
Acq: 9 Mar 2019 00:02

Tgt Ion: 84 Resp: 372395  
Ion Ratio Lower Upper  
84 100  
49 153.2 117.8 176.6  
51 47.5 36.9 55.3  
86 66.9 51.7 77.5





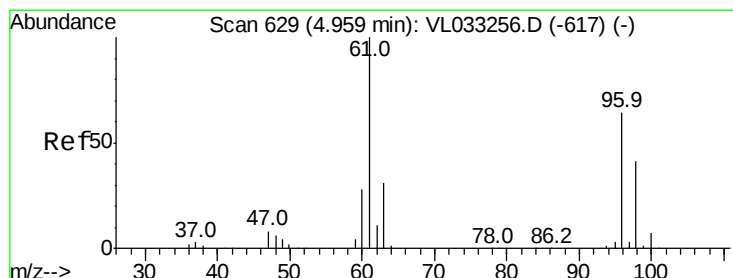
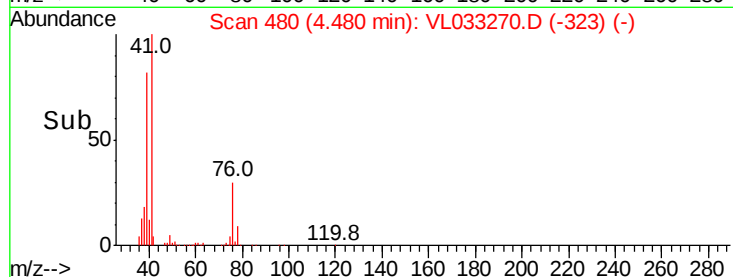
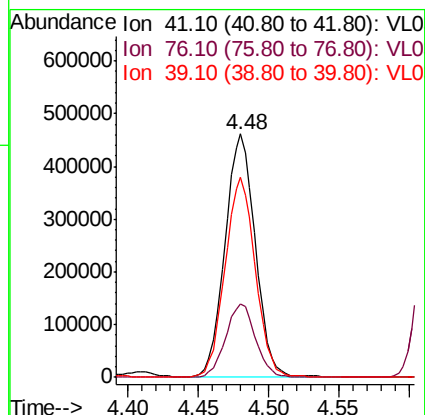
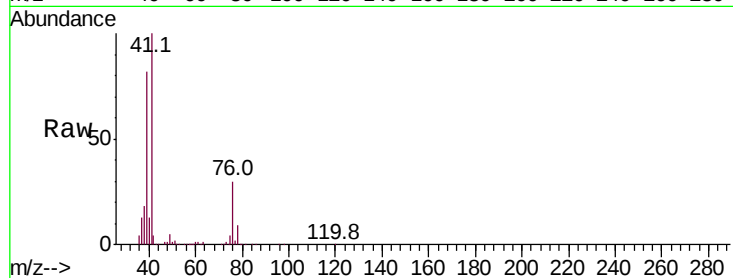
#21  
Allvl Chloride  
Concen: 10.636 ppbv  
RT: 4.48 min Scan# 480  
Delta R.T. 0.00 min  
Lab File: VL033270.D  
Acq: 9 Mar 2019 00:02

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 76      | 30.0  | 24.5  | 36.7  |
| 39      | 82.4  | 65.3  | 97.9  |

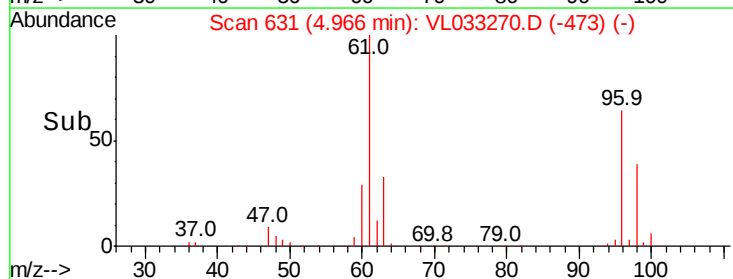
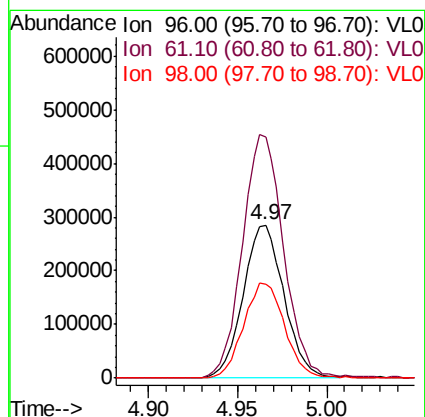
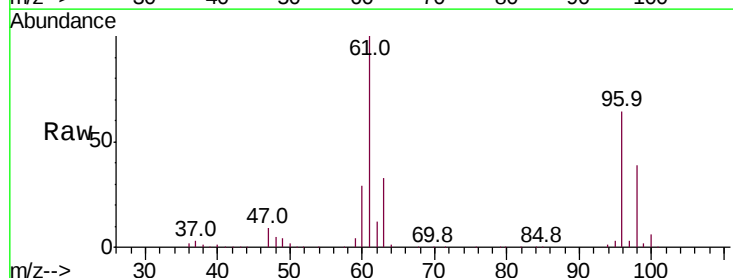
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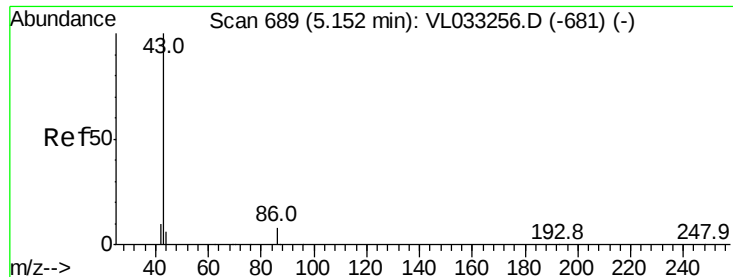
MMDadoda  
3/11/2019 10:10:31 AM



#22  
trans-1,2-Dichloroethene  
Concen: 10.353 ppbv  
RT: 4.97 min Scan# 631  
Delta R.T. 0.01 min  
Lab File: VL033270.D  
Acq: 9 Mar 2019 00:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 156.8 | 125.7 | 188.5 |
| 98      | 61.3  | 52.1  | 78.1  |





#23

Vinyl Acetate

Concen: 10.807 ppbv

RT: 5.16 min Scan# 690

Delta R.T. 0.00 min

Lab File: VL033270.D

Acq: 9 Mar 2019 00:02

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1667750

Ion Ratio Lower Upper

43 100

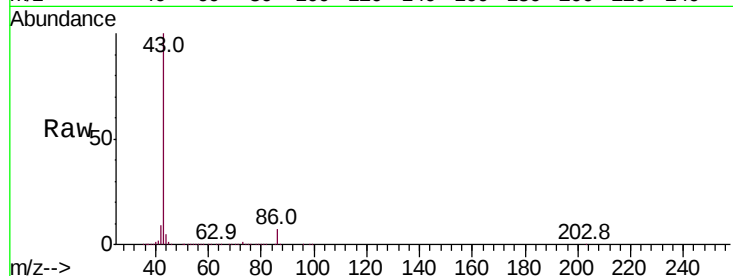
86 7.1 5.6 8.4

42 8.7 8.1 12.1

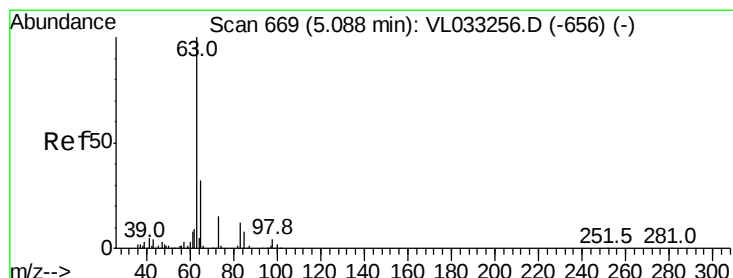
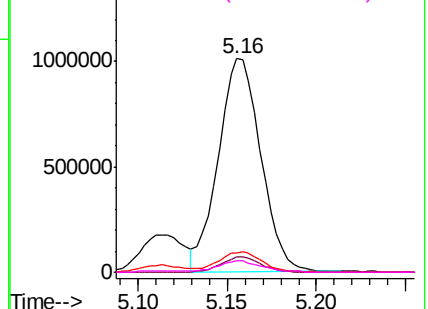
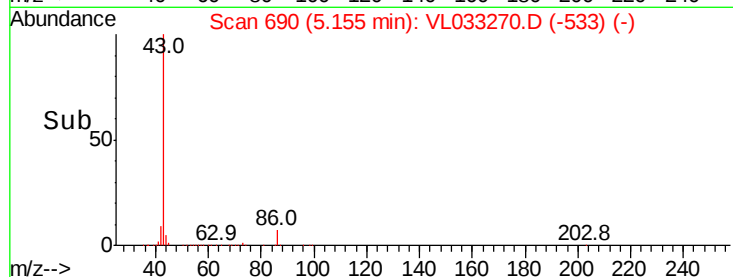
44 5.2 4.3 6.5

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Abundance Ion 43.10 (42.80 to 43.80): VL0  
Ion 86.10 (85.80 to 86.80): VL0  
Ion 42.10 (41.80 to 42.80): VL0  
Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.954 ppbv

RT: 5.09 min Scan# 671

Delta R.T. 0.01 min

Lab File: VL033270.D

Acq: 9 Mar 2019 00:02

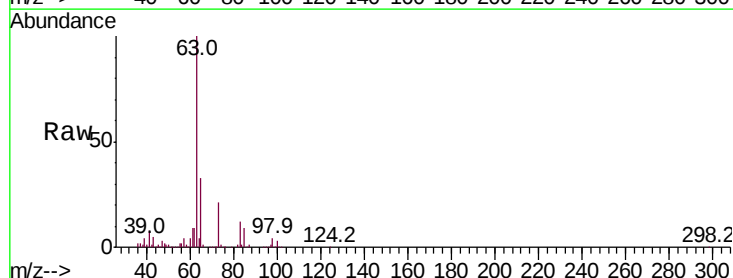
Tgt Ion: 63 Resp: 1127652

Ion Ratio Lower Upper

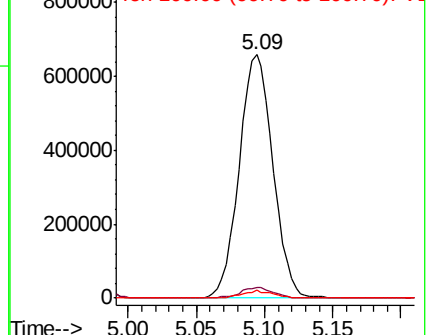
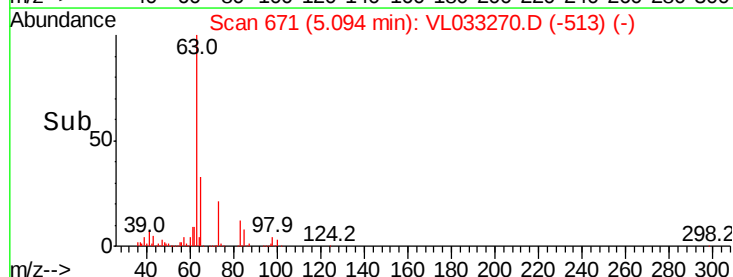
63 100

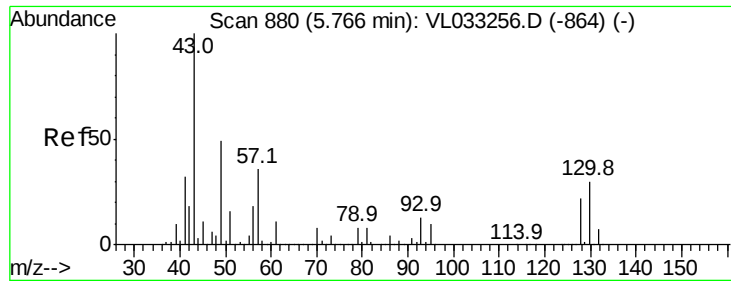
98 4.2 2.1 6.2

100 3.1 1.3 3.8



Abundance Ion 63.10 (62.80 to 63.80): VL0  
Ion 98.00 (97.70 to 98.70): VL0  
Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.252 ppbv

RT: 5.77 min Scan# 882

Delta R.T. 0.01 min

Lab File: VL033270.D

Acq: 9 Mar 2019 00:02

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1903449

Ion Ratio Lower Upper

43 100

45 9.8 7.8 11.8

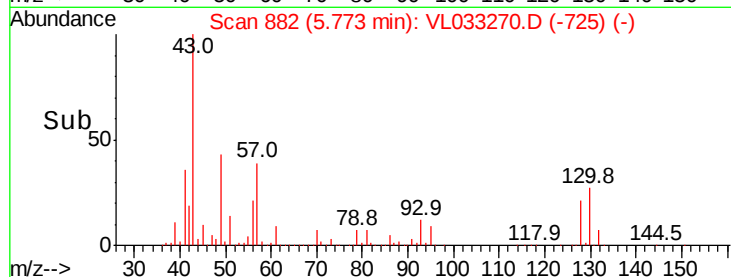
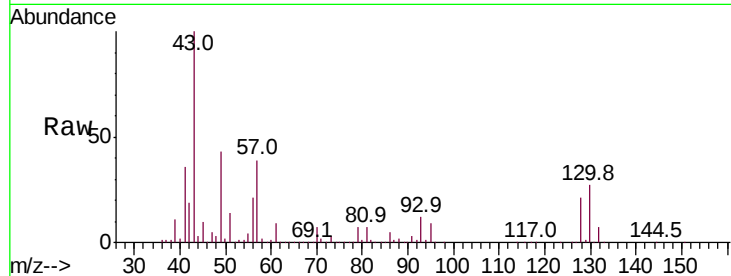
61 9.0 7.4 11.0

70 6.9 5.4 8.2

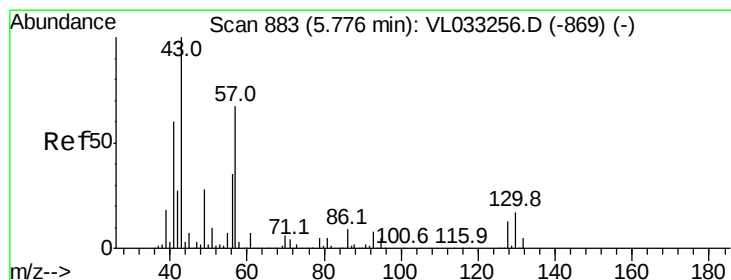
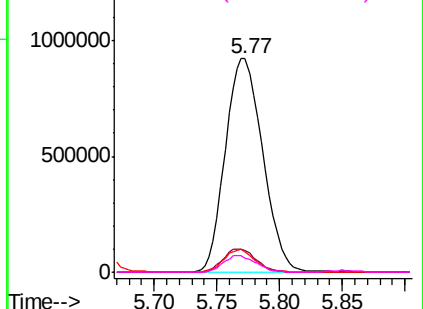
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Abundance Ion 43.10 (42.80 to 43.80): VL0  
Ion 45.10 (44.80 to 45.80): VL0  
Ion 61.10 (60.80 to 61.80): VL0  
Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 8.734 ppbv

RT: 5.78 min Scan# 885

Delta R.T. 0.01 min

Lab File: VL033270.D

Acq: 9 Mar 2019 00:02

Tgt Ion: 57 Resp: 846679

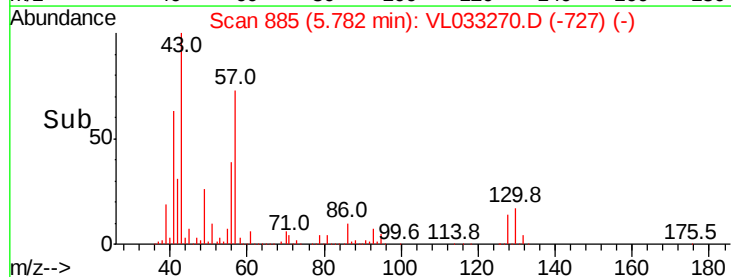
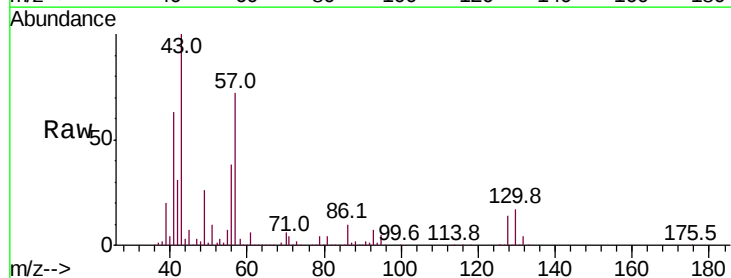
Ion Ratio Lower Upper

57 100

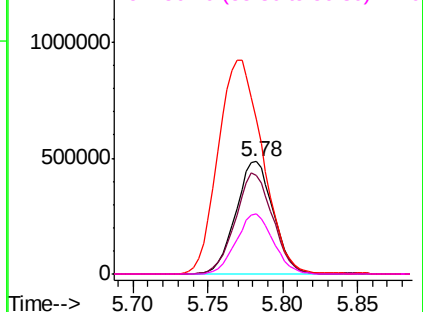
41 89.5 72.2 108.4

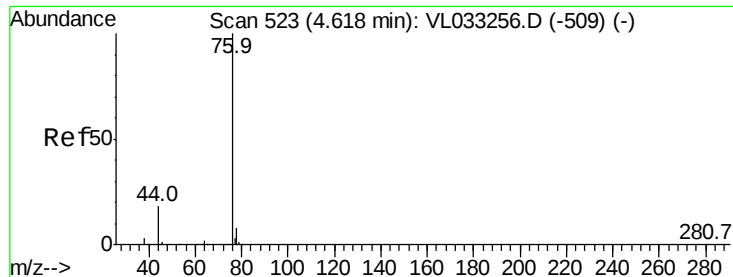
43 225.9 179.0 268.4

56 52.9 41.8 62.8



Abundance Ion 57.10 (56.80 to 57.80): VL0  
Ion 41.10 (40.80 to 41.80): VL0  
Ion 43.10 (42.80 to 43.80): VL0  
Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 11.493 ppbv

RT: 4.62 min Scan# 524

Delta R.T. 0.00 min

Lab File: VL033270.D

Acq: 9 Mar 2019 00:02

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1128359

Ion Ratio Lower Upper

76 100

44 18.9 14.8 22.2

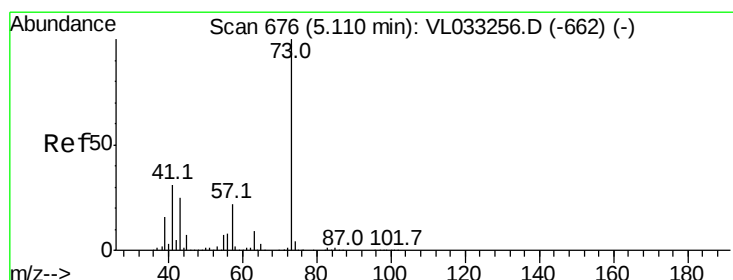
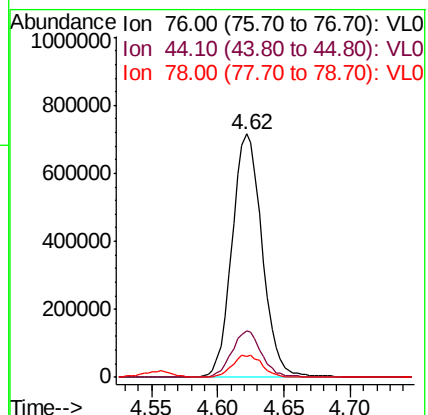
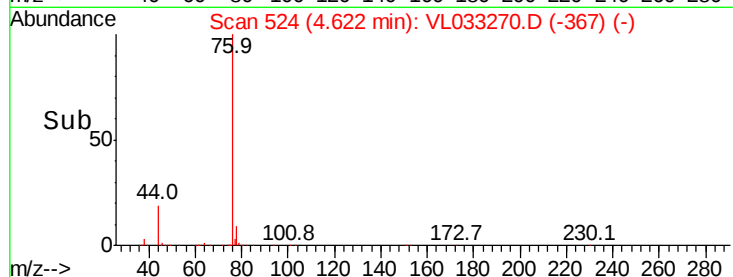
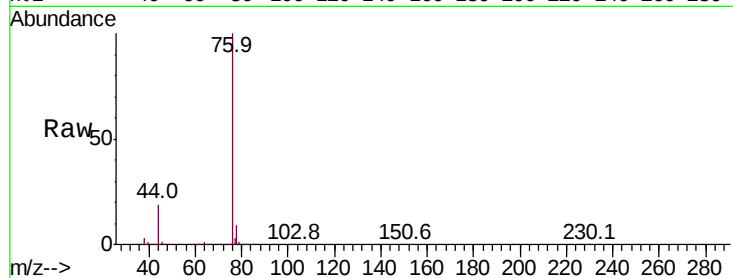
78 9.1 7.2 10.8

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MMDadoda

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#28

Methyl tert-Butyl Ether

Concen: 10.177 ppbv

RT: 5.12 min Scan# 678

Delta R.T. 0.01 min

Lab File: VL033270.D

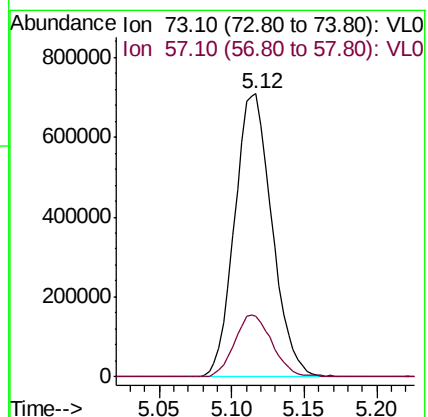
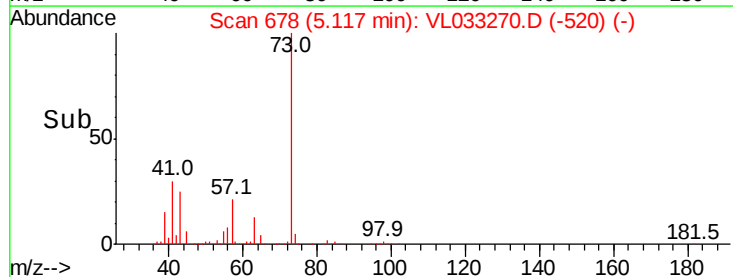
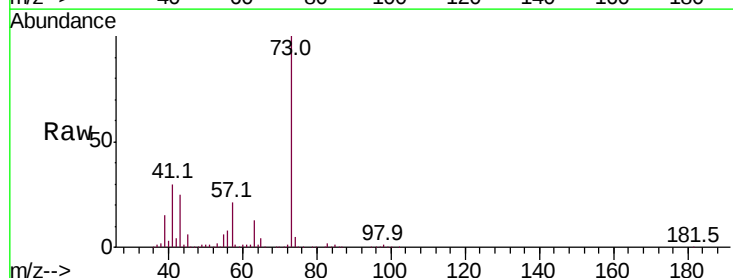
Acq: 9 Mar 2019 00:02

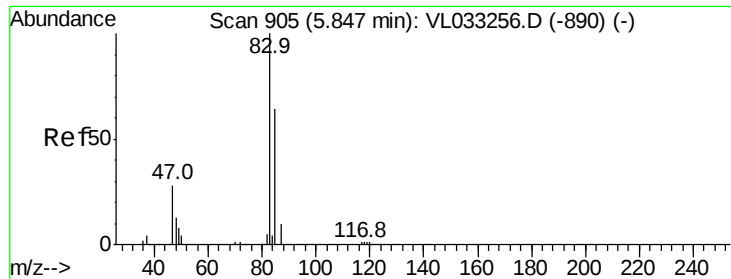
Tgt Ion: 73 Resp: 1267486

Ion Ratio Lower Upper

73 100

57 22.3 17.7 26.5





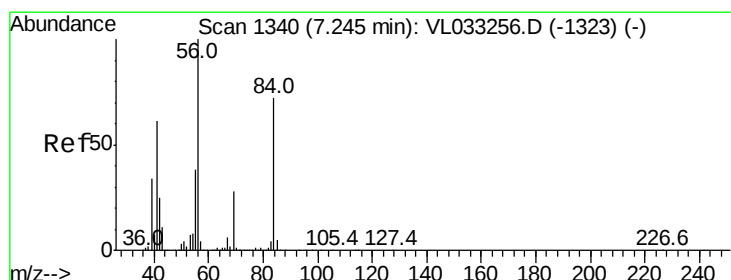
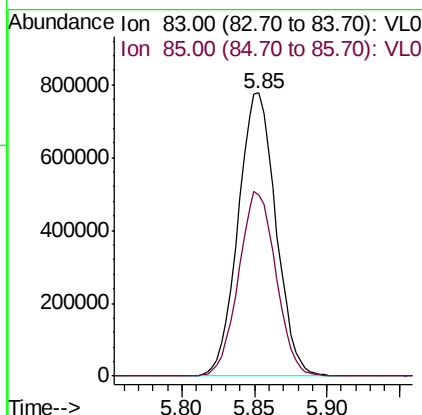
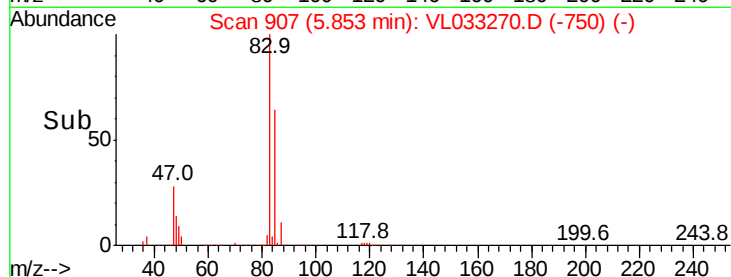
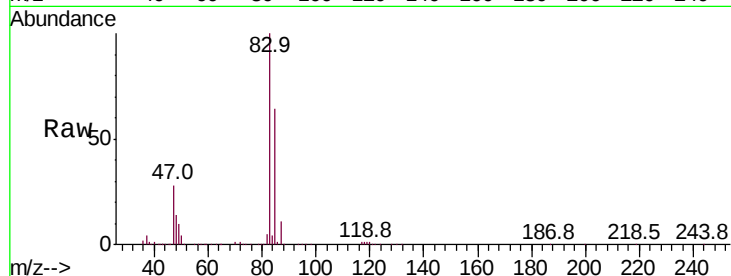
#29  
Chloroform  
Concen: 9.496 ppbv  
RT: 5.85 min Scan# 907  
Delta R.T. 0.01 min  
Lab File: VL033270.D  
Acq: 9 Mar 2019 00:02

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Tot Ion: 83 Resp: 1404790  
Ion Ratio Lower Upper  
83 100  
85 63.7 51.0 76.6

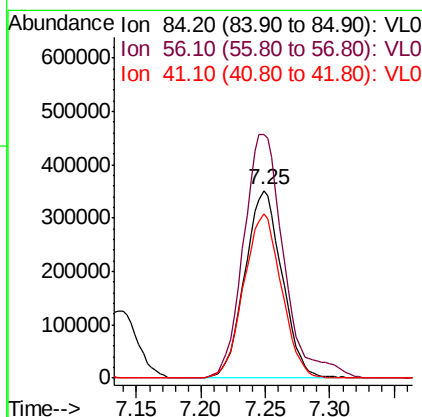
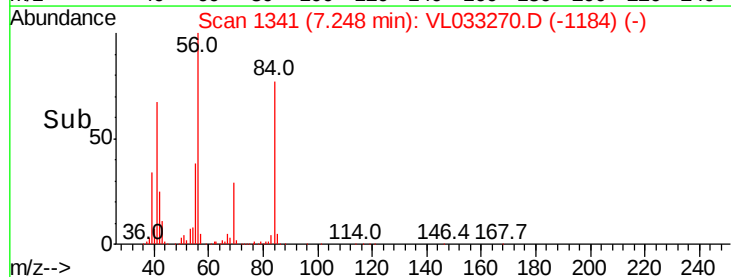
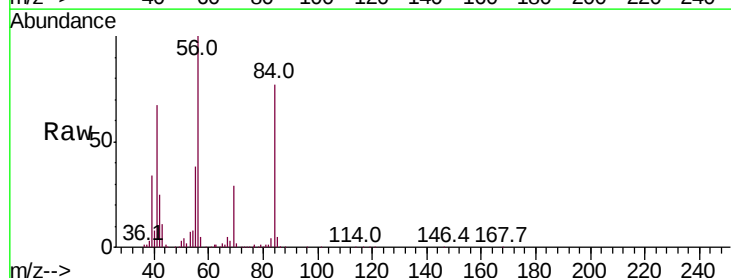
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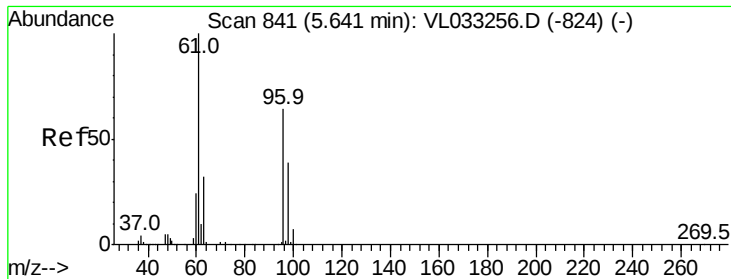
MMDadoda  
3/11/2019 10:10:31 AM



#30  
Cyclohexane  
Concen: 9.456 ppbv  
RT: 7.25 min Scan# 1341  
Delta R.T. 0.00 min  
Lab File: VL033270.D  
Acq: 9 Mar 2019 00:02

Tgt Ion: 84 Resp: 709729  
Ion Ratio Lower Upper  
84 100  
56 140.8 113.4 170.2  
41 88.2 70.2 105.4





#31

cis-1,2-Dichloroethene

Concen: 9.779 ppbv

RT: 5.64 min Scan# 842

Delta R.T. 0.00 min

Lab File: VL033270.D

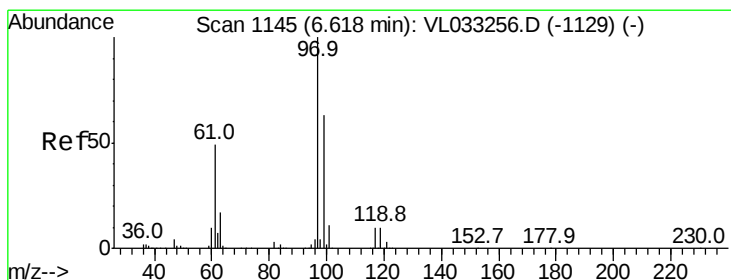
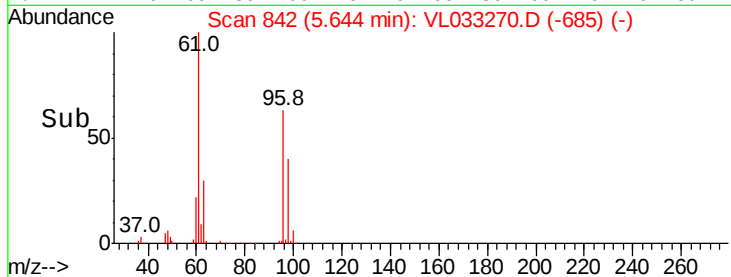
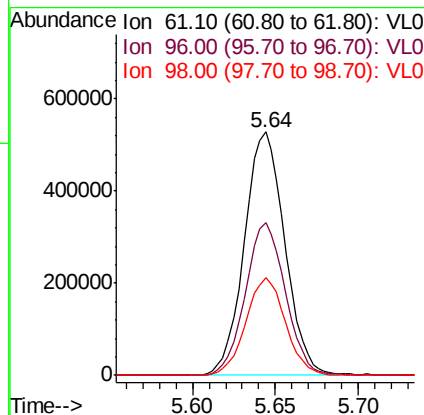
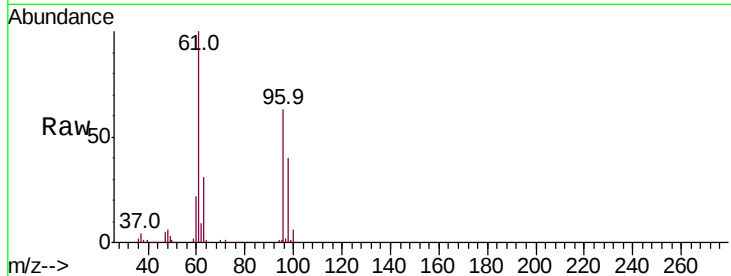
Acq: 9 Mar 2019 00:02

| Tot Ion | 61    | Resp  | 897983 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 61      | 100   |       |        |
| 96      | 63.0  | 51.2  | 76.8   |
| 98      | 40.0  | 30.8  | 46.2   |

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Manual Integrations  
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#32

1,1,1-Trichloroethane

Concen: 9.915 ppbv

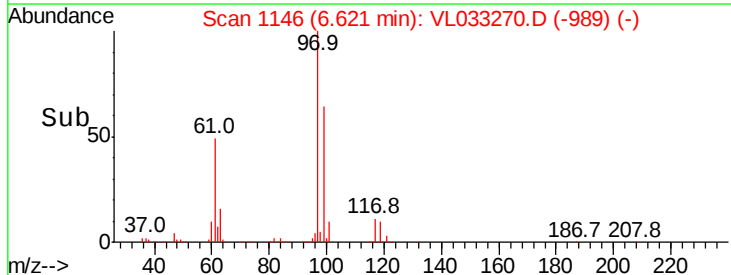
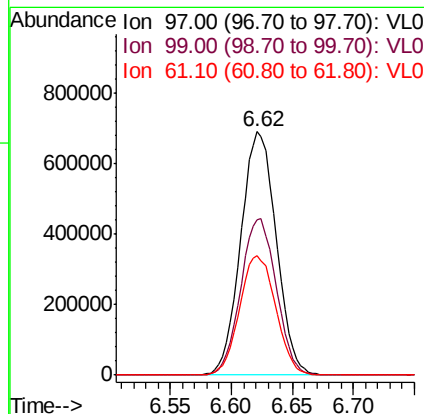
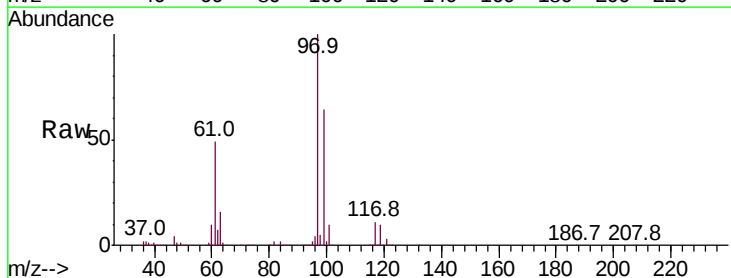
RT: 6.62 min Scan# 1146

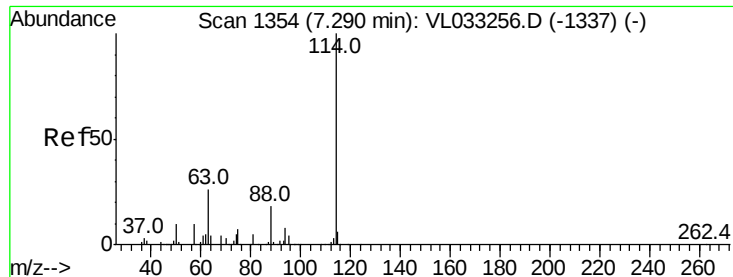
Delta R.T. 0.00 min

Lab File: VL033270.D

Acq: 9 Mar 2019 00:02

| Tgt Ion | 97    | Resp  | 1385261 |
|---------|-------|-------|---------|
| Ion     | Ratio | Lower | Upper   |
| 97      | 100   |       |         |
| 99      | 64.4  | 51.6  | 77.4    |
| 61      | 50.1  | 40.8  | 61.2    |





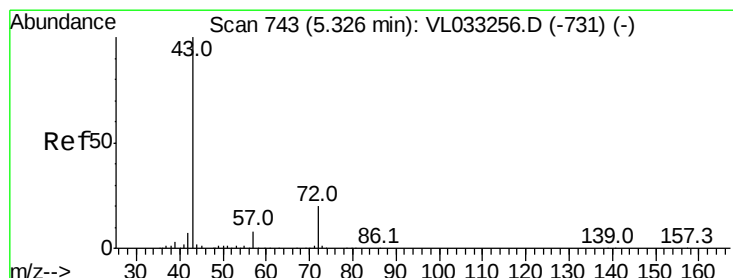
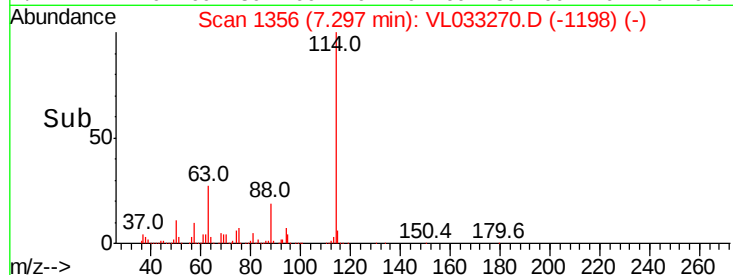
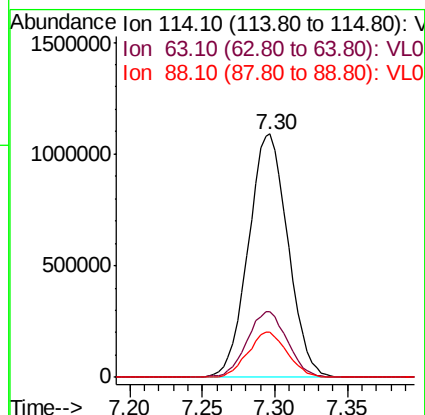
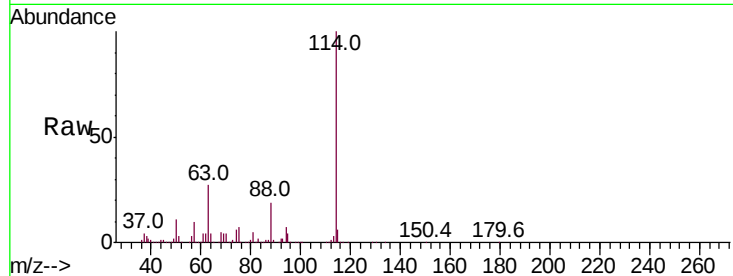
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.30 min Scan# 1356  
 Delta R.T. 0.01 min  
 Lab File: VL033270.D  
 Acq: 9 Mar 2019 00:02

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 27.8  | 22.2  | 33.2  |
| 88      | 18.6  | 14.6  | 22.0  |

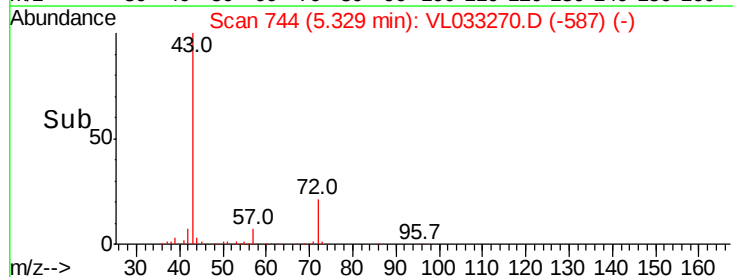
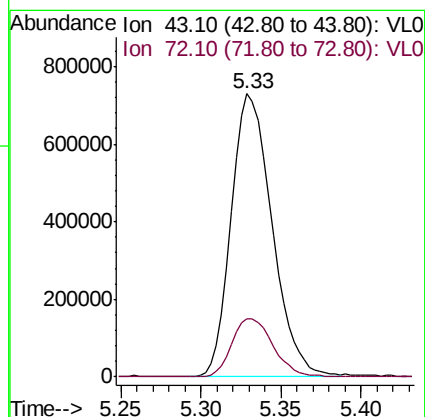
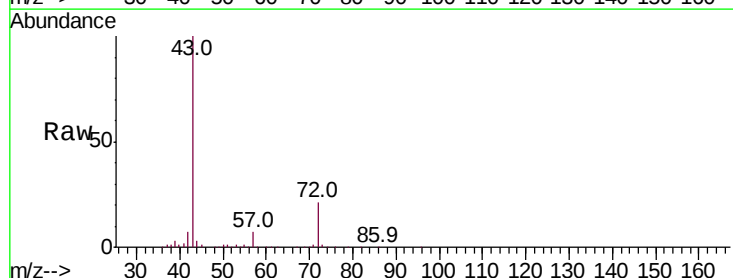
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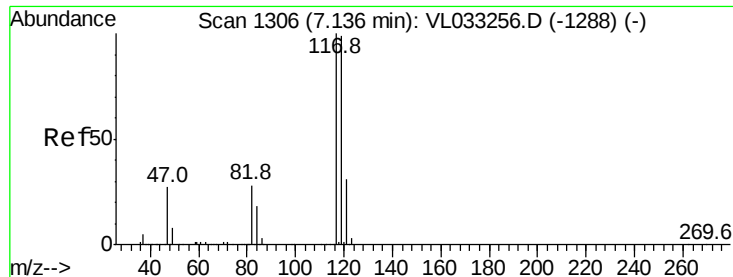
MMDadoda  
 3/11/2019 10:10:31 AM



#34  
 2-Butanone  
 Concen: 10.143 ppbv  
 RT: 5.33 min Scan# 744  
 Delta R.T. 0.00 min  
 Lab File: VL033270.D  
 Acq: 9 Mar 2019 00:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 21.0  | 16.9  | 25.3  |





#35

Carbon Tetrachloride

Concen: 10.433 ppbv

RT: 7.14 min Scan# 1306

Delta R.T. -0.00 min

Lab File: VL033270.D

Acq: 9 Mar 2019 00:02

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 1464806

Ion Ratio Lower Upper

117 100

119 95.2 79.0 118.6

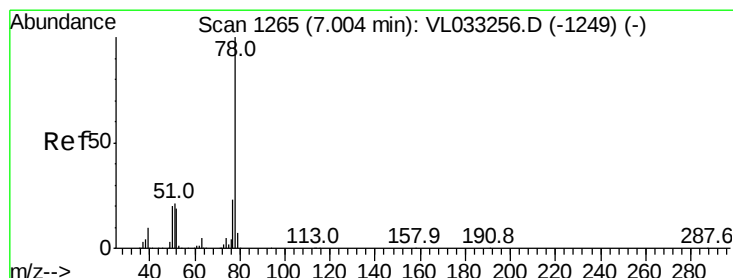
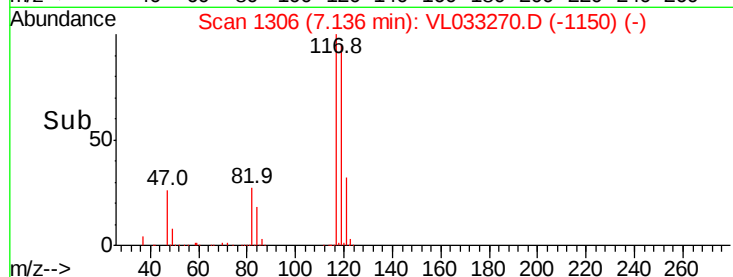
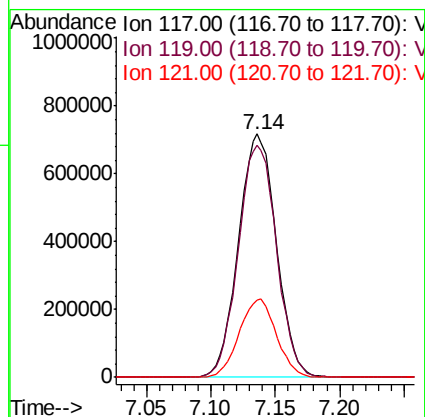
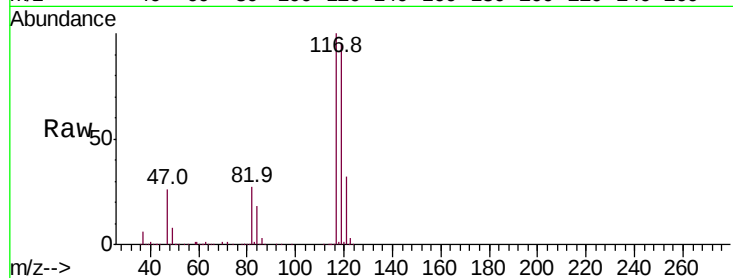
121 31.7 24.7 37.1

Manual Integrations

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#36

Benzene

Concen: 10.038 ppbv

RT: 7.01 min Scan# 1266

Delta R.T. 0.00 min

Lab File: VL033270.D

Acq: 9 Mar 2019 00:02

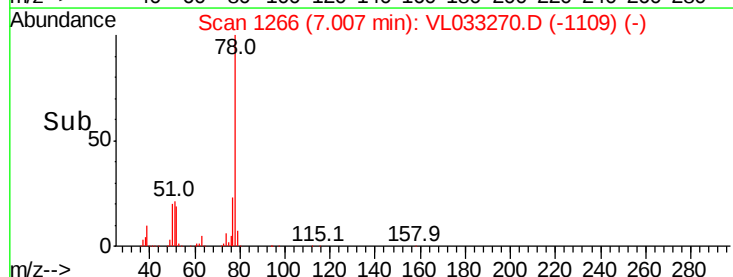
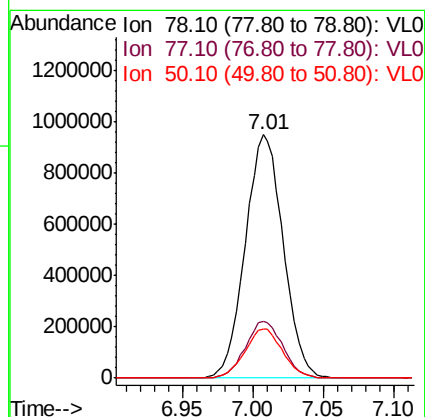
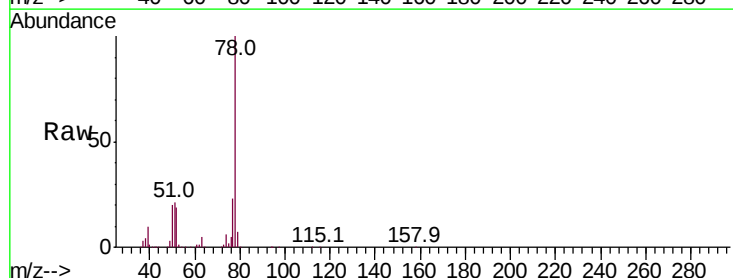
Tgt Ion: 78 Resp: 1787460

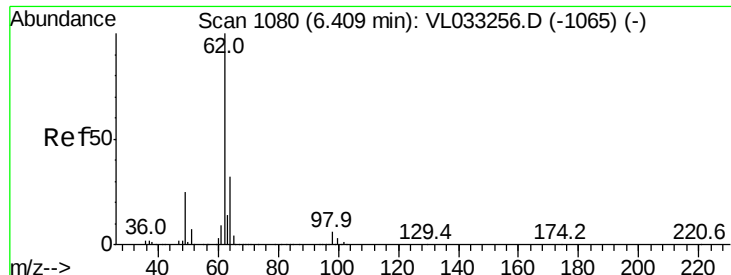
Ion Ratio Lower Upper

78 100

77 23.3 18.2 27.2

50 20.1 16.2 24.2





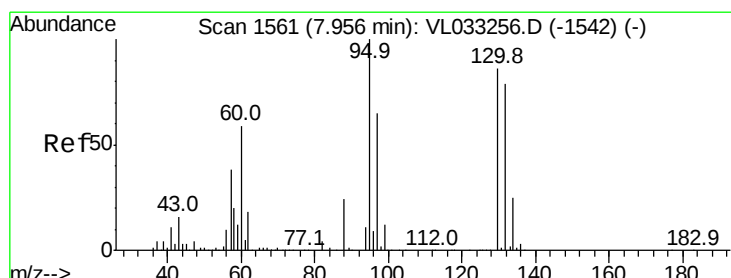
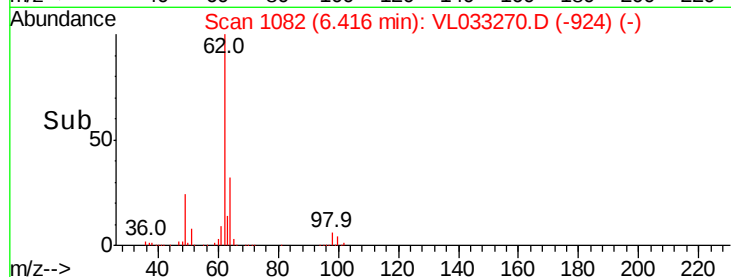
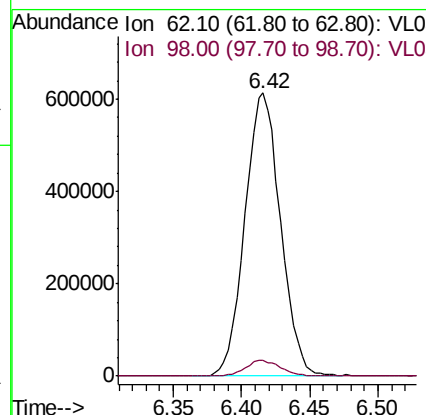
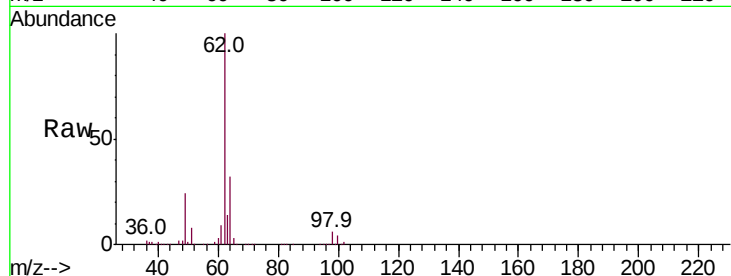
#37  
 1,2-Dichloroethane  
 Concen: 9.669 ppbv  
 RT: 6.42 min Scan# 1082  
 Delta R.T. 0.01 min  
 Lab File: VL033270.D  
 Acq: 9 Mar 2019 00:02

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Tot Ion: 62 Resp: 1108708  
 Ion Ratio Lower Upper  
 62 100  
 98 5.5 4.5 6.7

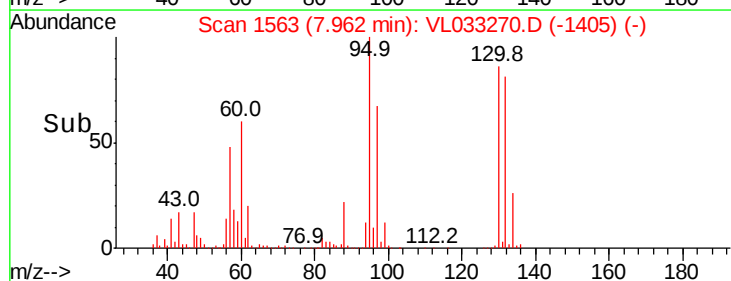
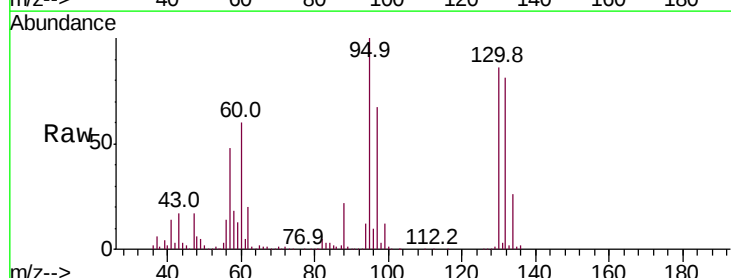
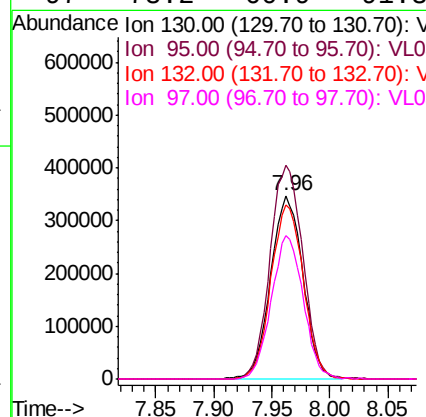
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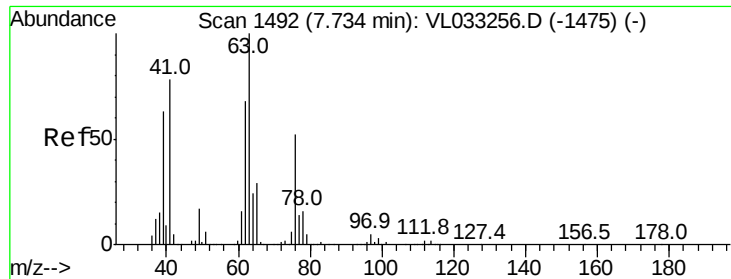
MMDadoda  
 3/11/2019 10:10:31 AM



#38  
 Trichloroethene  
 Concen: 9.749 ppbv  
 RT: 7.96 min Scan# 1563  
 Delta R.T. 0.01 min  
 Lab File: VL033270.D  
 Acq: 9 Mar 2019 00:02

Tgt Ion:130 Resp: 673668  
 Ion Ratio Lower Upper  
 130 100  
 95 116.6 93.4 140.0  
 132 94.8 74.0 111.0  
 97 78.2 60.9 91.3





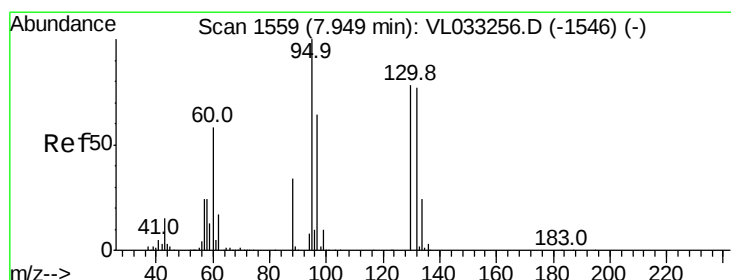
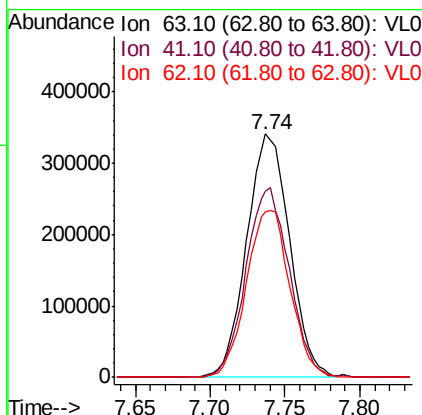
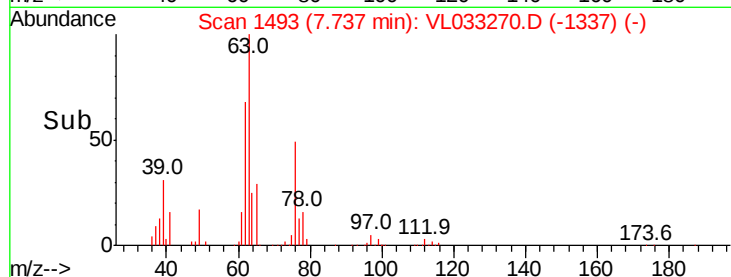
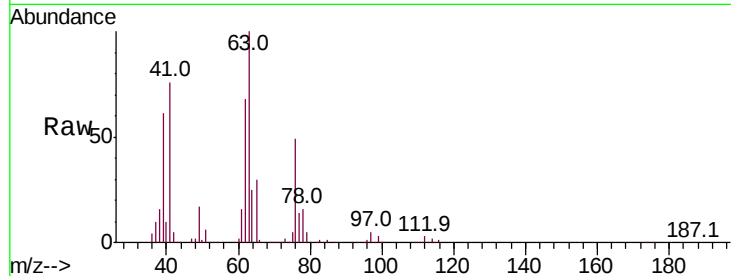
#39  
 1,2-Dichloropropane  
 Concen: 9.784 ppbv  
 RT: 7.74 min Scan# 1493  
 Delta R.T. 0.00 min  
 Lab File: VL033270.D  
 Acq: 9 Mar 2019 00:02

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 41      | 76.4  | 62.6  | 94.0  |
| 62      | 67.9  | 54.6  | 81.8  |

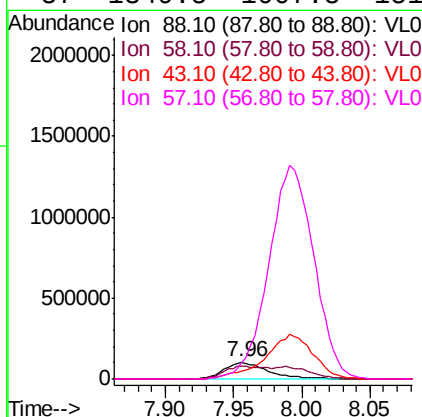
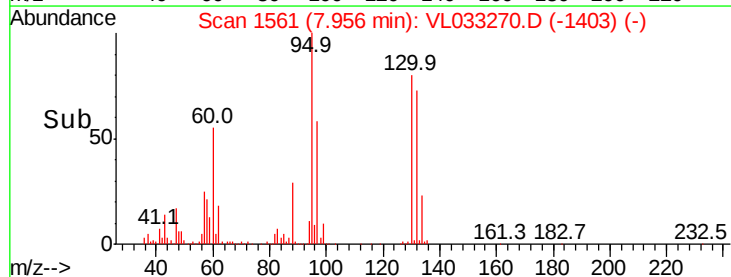
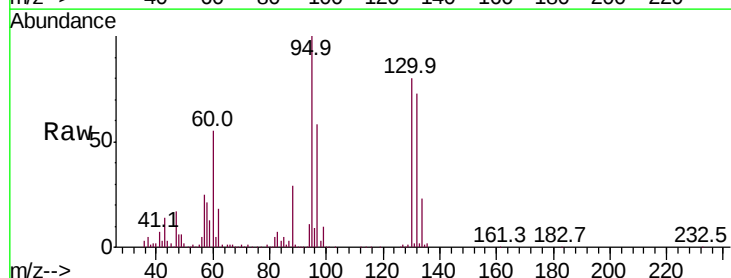
Manual Integrations  
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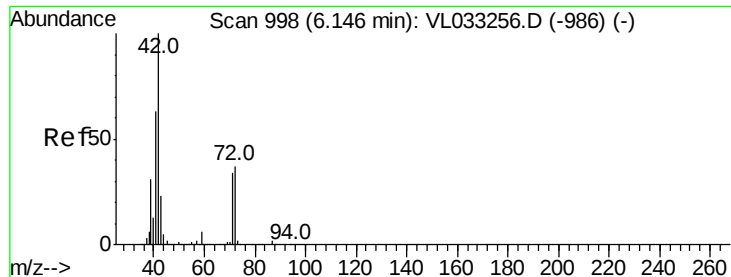
MMDadoda  
 3/11/2019 10:10:31 AM



#40  
 1,4-Dioxane  
 Concen: 8.760 ppbv  
 RT: 7.96 min Scan# 1561  
 Delta R.T. 0.01 min  
 Lab File: VL033270.D  
 Acq: 9 Mar 2019 00:02

| Tgt Ion | Ratio  | Lower  | Upper  |
|---------|--------|--------|--------|
| 88      | 100    |        |        |
| 58      | 138.0  | 108.4  | 162.6  |
| 43      | 301.2  | 232.3  | 348.5  |
| 57      | 1349.5 | 1007.8 | 1511.8 |





#41

Tetrahydrofuran

Concen: 10.358 ppbv

RT: 6.15 min Scan# 999

Delta R.T. 0.00 min

Lab File: VL033270.D

Acq: 9 Mar 2019 00:02

Instrument :

MSVOA\_L

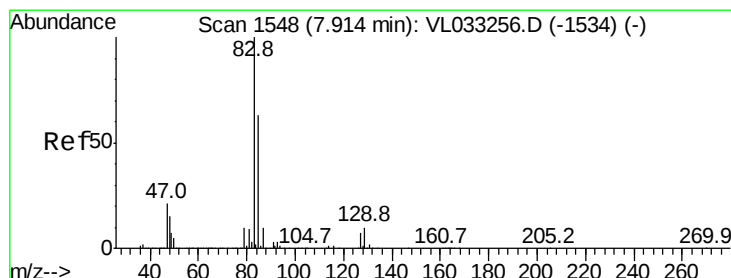
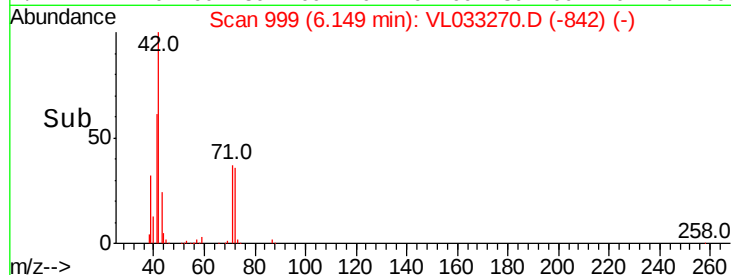
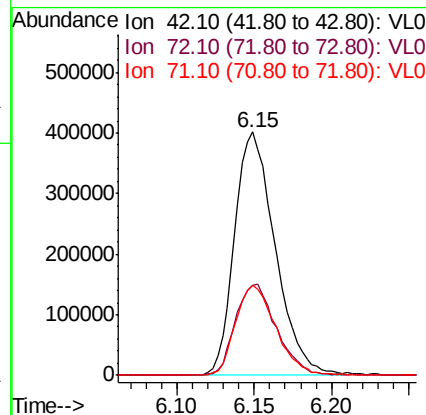
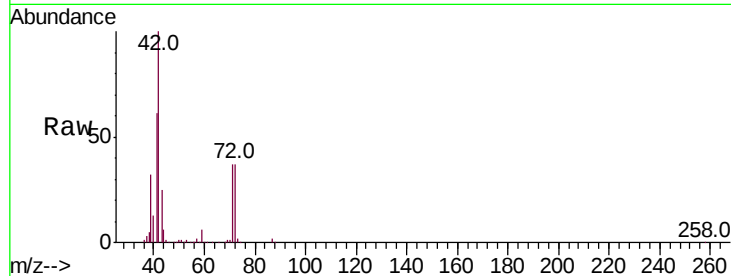
ClientSampleId :

VSTDCCC010EC

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 42    | Resp: | 731780 |
| Ion      | Ratio | Lower | Upper  |
| 42       | 100   |       |        |
| 72       | 37.9  | 30.2  | 45.2   |
| 71       | 37.0  | 29.0  | 43.6   |

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#42

Bromodichloromethane

Concen: 10.096 ppbv

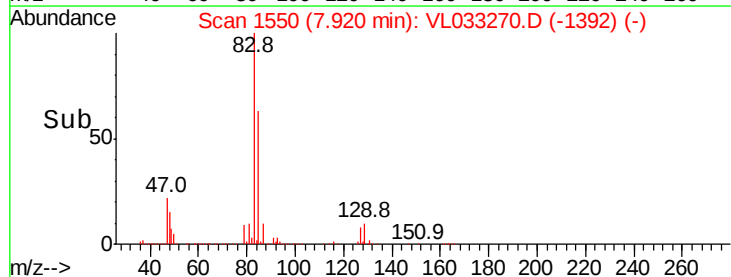
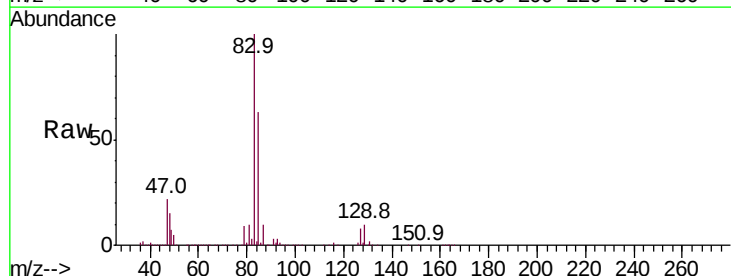
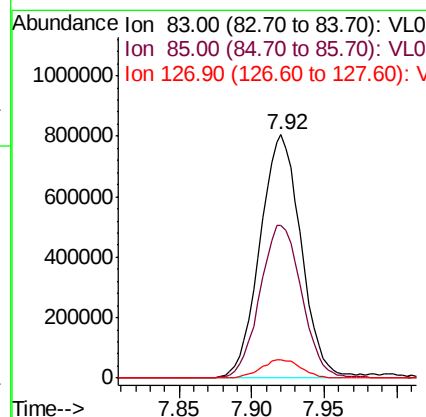
RT: 7.92 min Scan# 1550

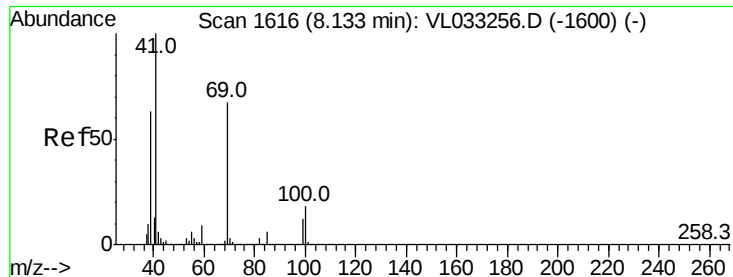
Delta R.T. 0.01 min

Lab File: VL033270.D

Acq: 9 Mar 2019 00:02

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 83    | Resp: | 1576740 |
| Ion      | Ratio | Lower | Upper   |
| 83       | 100   |       |         |
| 85       | 62.9  | 50.1  | 75.1    |
| 127      | 7.5   | 5.9   | 8.9     |





#43

Methyl Methacrylate

Concen: 10.256 ppbv

RT: 8.14 min Scan# 1618

Delta R.T. 0.01 min

Lab File: VL033270.D

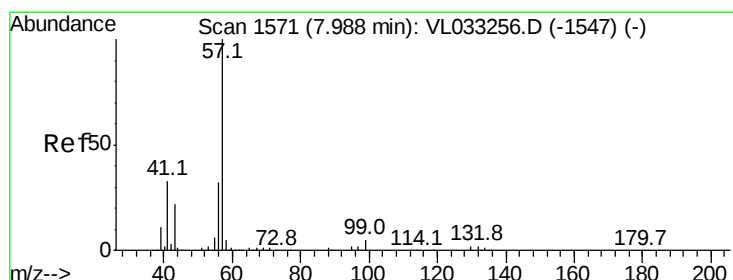
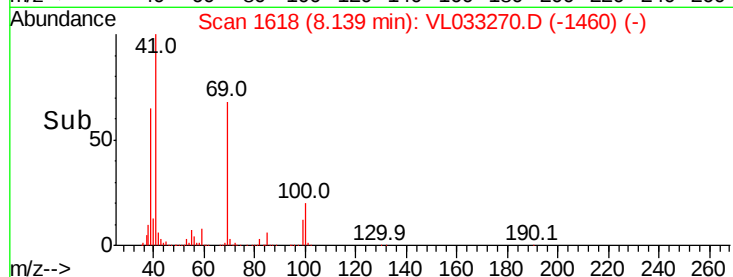
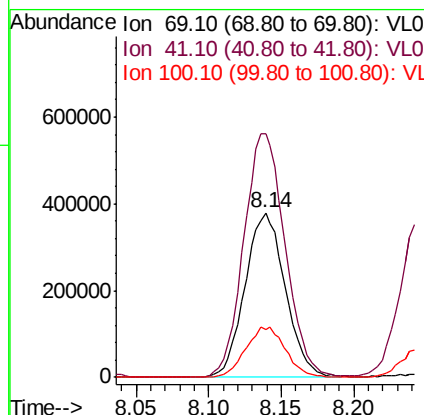
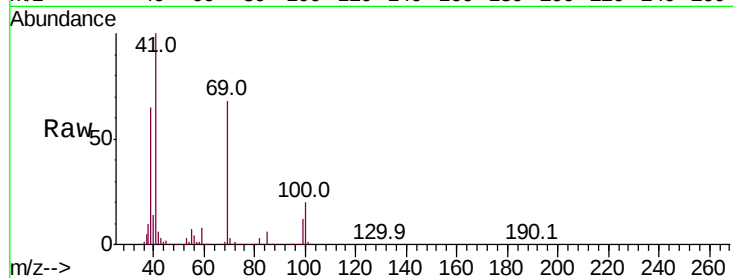
Acq: 9 Mar 2019 00:02

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 69      | 100   |       |       |
| 41      | 151.2 | 120.3 | 180.5 |
| 100     | 30.1  | 23.5  | 35.3  |

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#44

2,2,4-Trimethylpentane

Concen: 9.618 ppbv

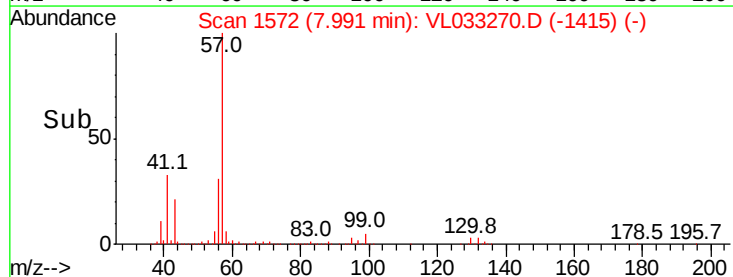
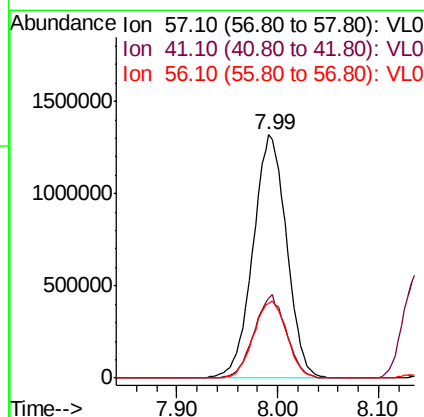
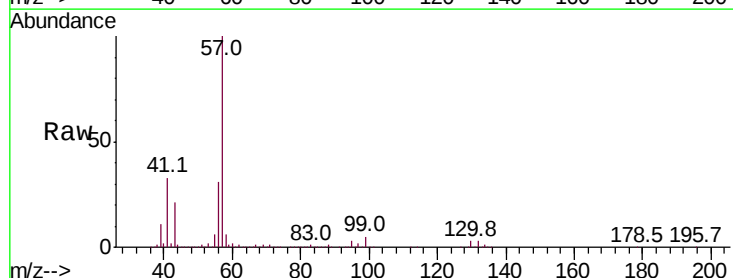
RT: 7.99 min Scan# 1572

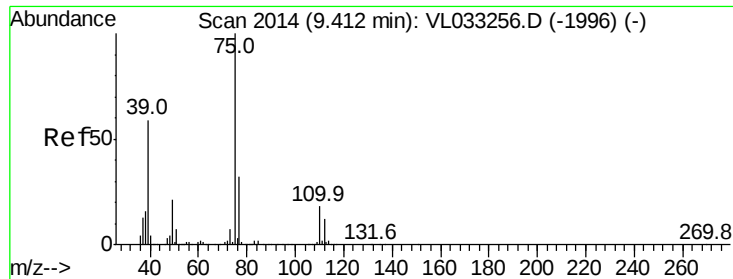
Delta R.T. 0.00 min

Lab File: VL033270.D

Acq: 9 Mar 2019 00:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 57      | 100   |       |       |
| 41      | 32.8  | 26.4  | 39.6  |
| 56      | 31.4  | 25.1  | 37.7  |





#45

t-1,3-Dichloropropene

Concen: 11.483 ppbv

RT: 9.42 min Scan# 2016

Delta R.T. 0.01 min

Lab File: VL033270.D

Acq: 9 Mar 2019 00:02

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 75 Resp: 996325

Ion Ratio Lower Upper

75 100

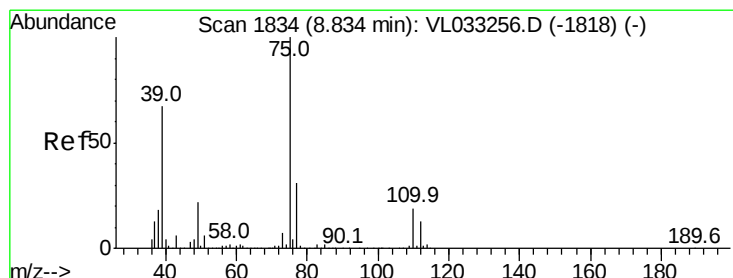
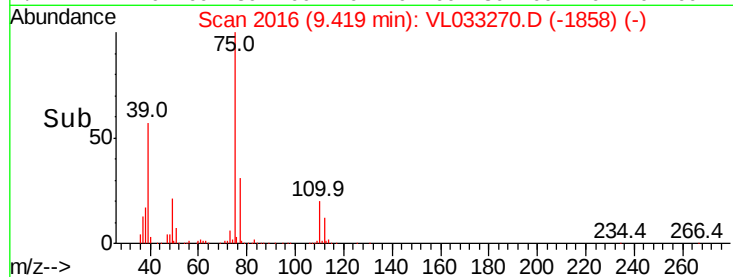
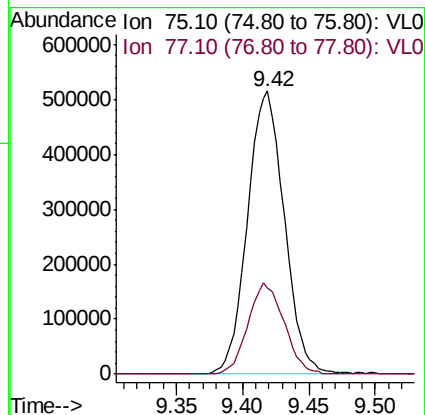
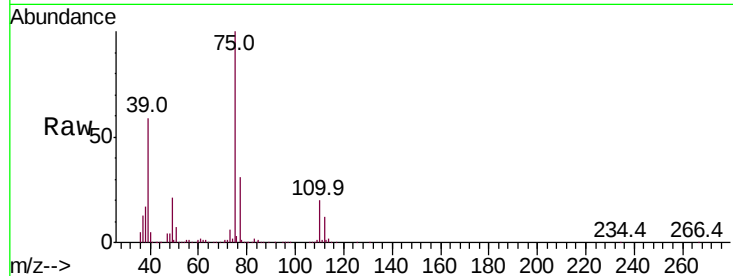
77 30.5 25.4 38.0

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#46

cis-1,3-Dichloropropene

Concen: 10.839 ppbv

RT: 8.84 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VL033270.D

Acq: 9 Mar 2019 00:02

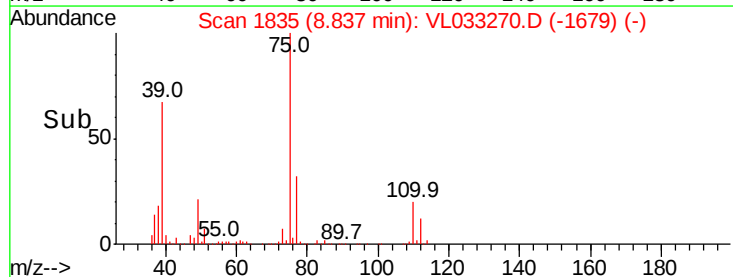
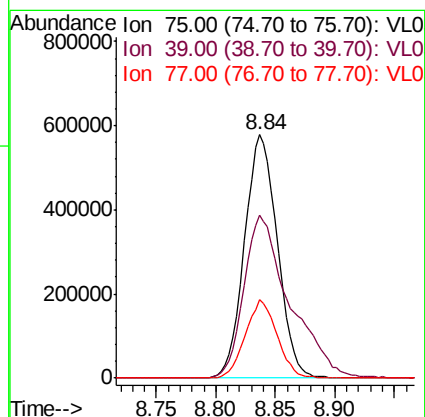
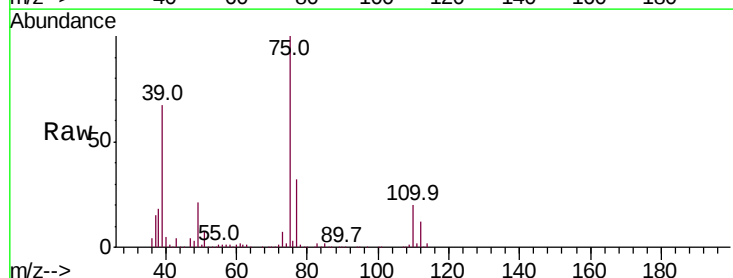
Tgt Ion: 75 Resp: 1106846

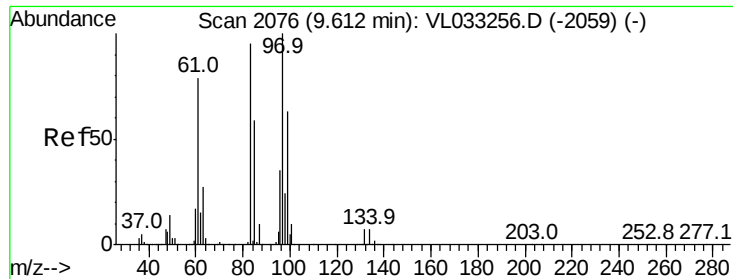
Ion Ratio Lower Upper

75 100

39 67.0 53.8 80.6

77 32.3 25.0 37.6





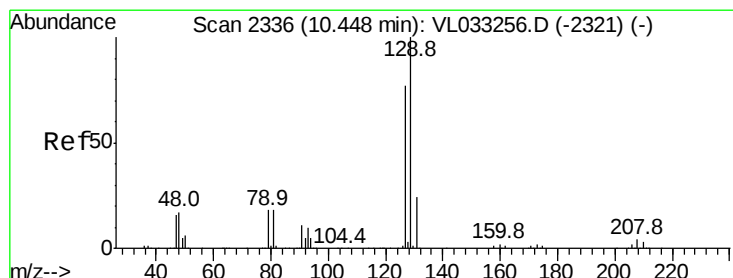
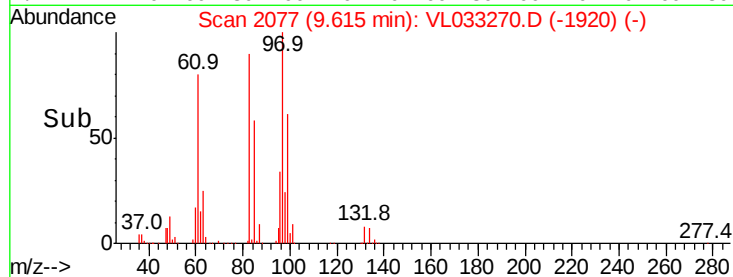
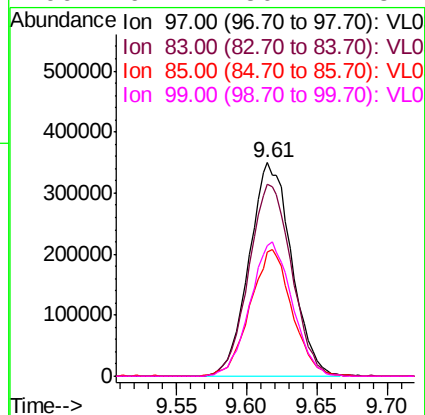
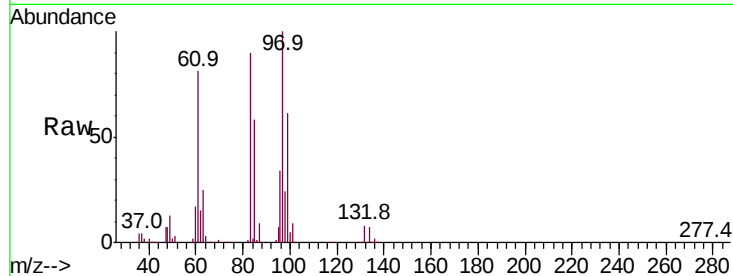
#47  
1,1,2-Trichloroethane  
Concen: 9.796 ppbv  
RT: 9.61 min Scan# 2077  
Delta R.T. 0.00 min  
Lab File: VL033270.D  
Acq: 9 Mar 2019 00:02

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 90.0  | 75.8  | 113.8 |
| 85      | 58.2  | 47.5  | 71.3  |
| 99      | 61.4  | 50.2  | 75.2  |

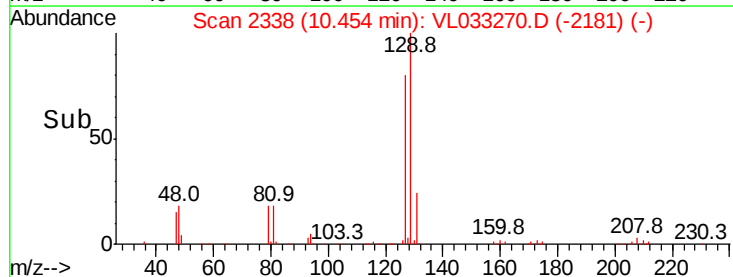
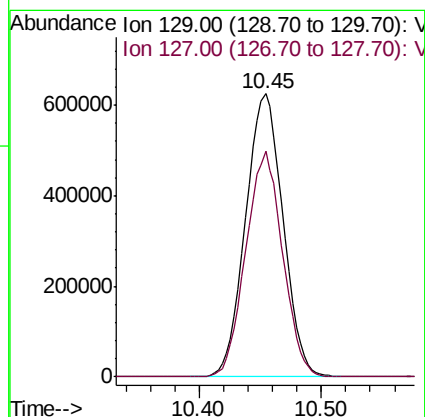
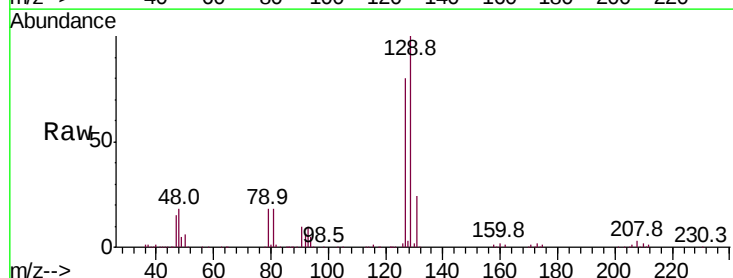
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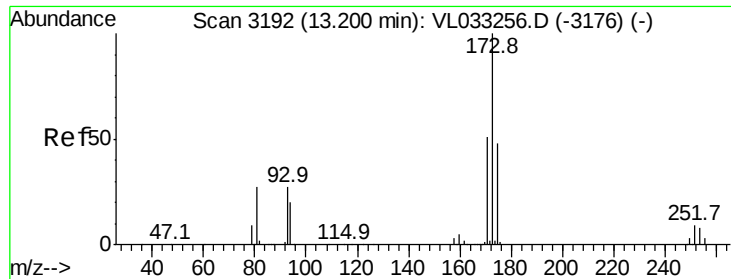
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#48  
Dibromochloromethane  
Concen: 10.742 ppbv  
RT: 10.45 min Scan# 2338  
Delta R.T. 0.01 min  
Lab File: VL033270.D  
Acq: 9 Mar 2019 00:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 129     | 100   |       |       |
| 127     | 78.6  | 39.4  | 118.2 |





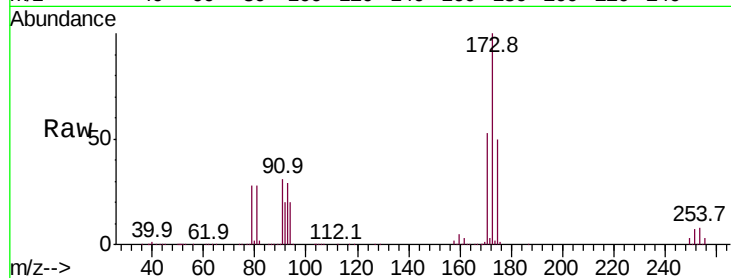
#49  
Bromoform  
Concen: 11.970 ppbv  
RT: 13.20 min Scan# 3193  
Delta R.T. 0.00 min  
Lab File: VL033270.D  
Acq: 9 Mar 2019 00:02

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

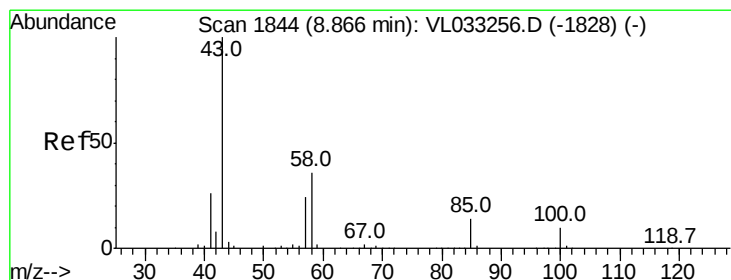
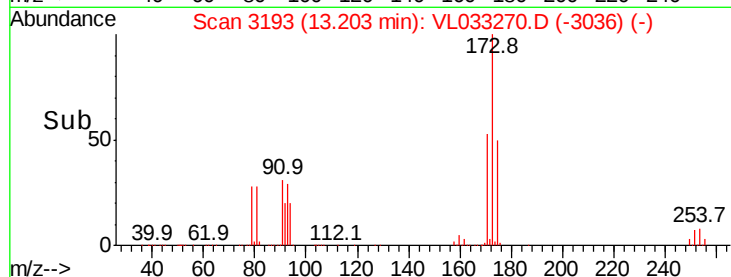
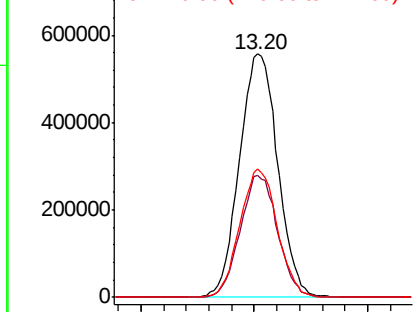
Tot Ion:173 Resp: 1310567  
Ion Ratio Lower Upper  
173 100  
175 49.0 38.8 58.2  
171 51.9 41.5 62.3

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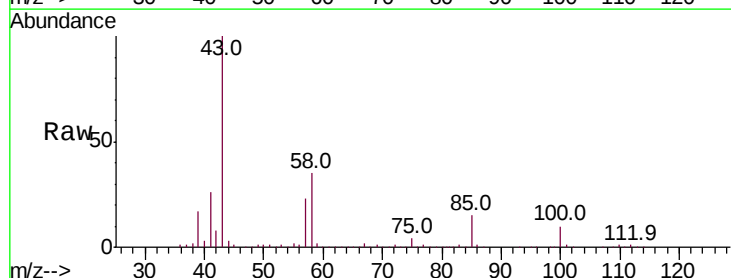


Abundance Ion 172.90 (172.60 to 173.60): V  
Ion 174.90 (174.60 to 175.60): V  
Ion 170.90 (170.60 to 171.60): V

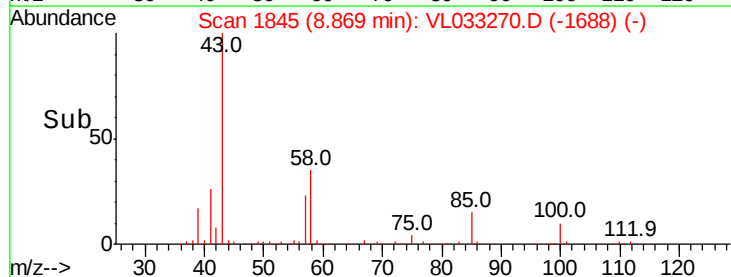
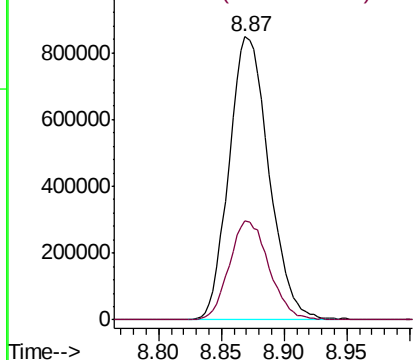


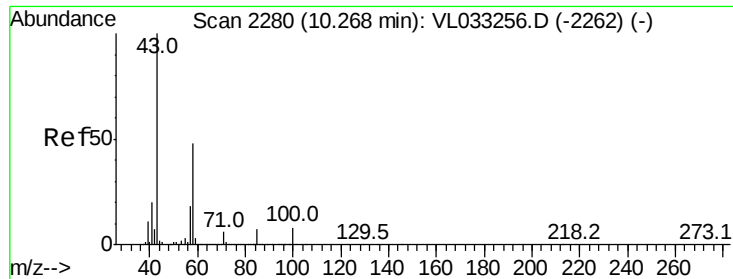
#50  
4-Methyl-2-Pentanone  
Concen: 9.887 ppbv  
RT: 8.87 min Scan# 1845  
Delta R.T. 0.00 min  
Lab File: VL033270.D  
Acq: 9 Mar 2019 00:02

Tgt Ion: 43 Resp: 1870535  
Ion Ratio Lower Upper  
43 100  
58 35.0 28.1 42.1



Abundance Ion 43.10 (42.80 to 43.80): VL0  
Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 10.643 ppbv

RT: 10.27 min Scan# 2281

Delta R.T. 0.00 min

Lab File: VL033270.D

Acq: 9 Mar 2019 00:02

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1501050

Ion Ratio Lower Upper

43 100

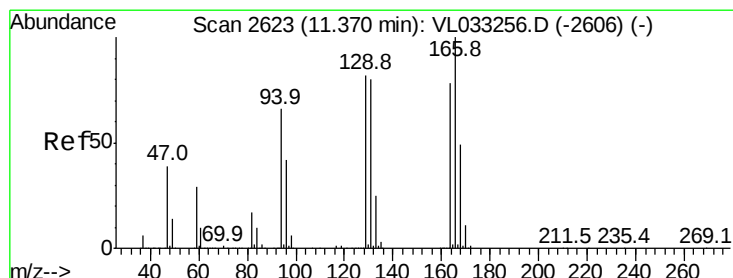
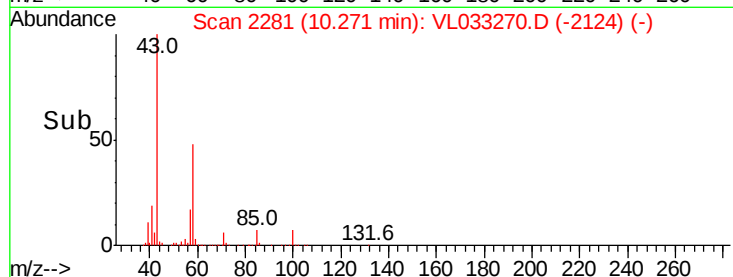
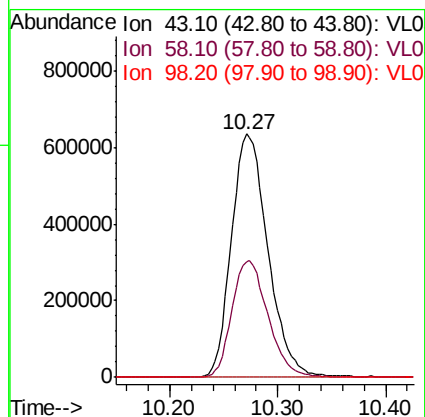
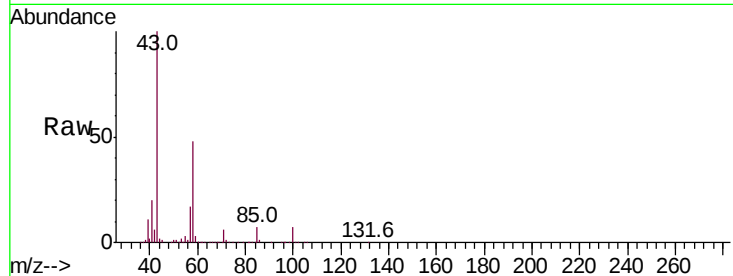
58 47.7 38.1 57.1

98 0.1 0.2 0.4#

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#52

Tetrachloroethene

Concen: 11.134 ppbv

RT: 11.37 min Scan# 2624

Delta R.T. 0.00 min

Lab File: VL033270.D

Acq: 9 Mar 2019 00:02

Tgt Ion: 164 Resp: 738771

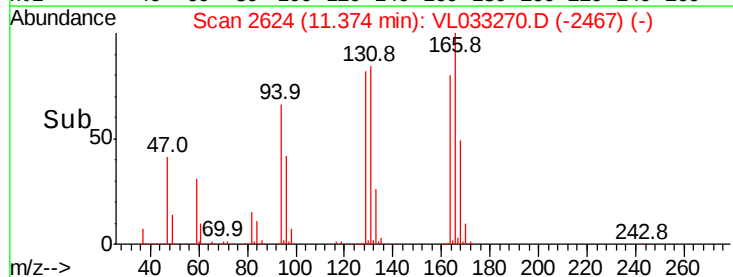
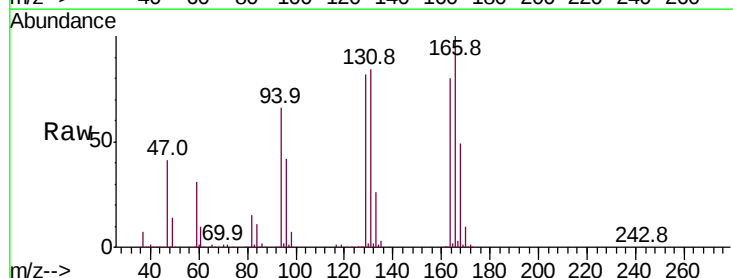
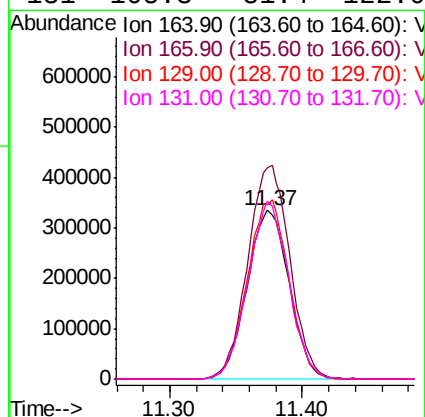
Ion Ratio Lower Upper

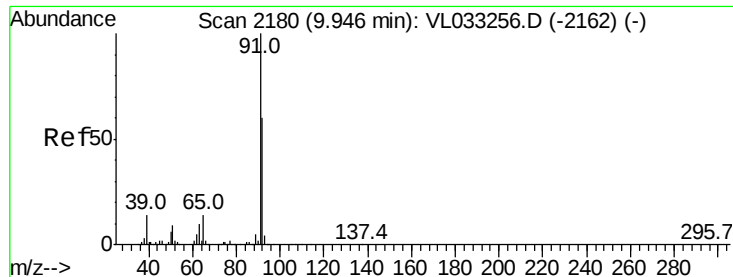
164 100

166 125.3 102.0 153.0

129 103.0 83.2 124.8

131 105.3 81.4 122.0





#53

Toluene

Concen: 10.400 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. 0.00 min

Lab File: VL033270.D

Acq: 9 Mar 2019 00:02

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2121099

Ion Ratio Lower Upper

91 100

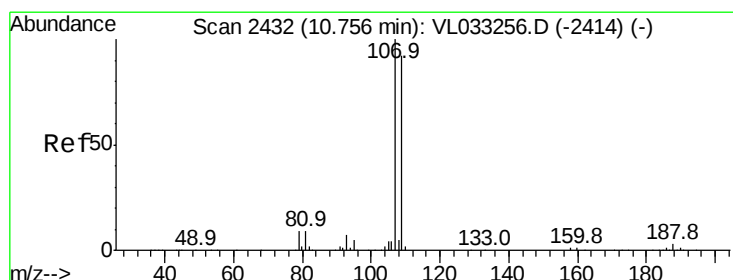
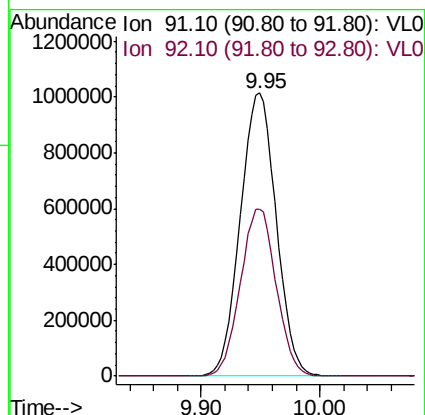
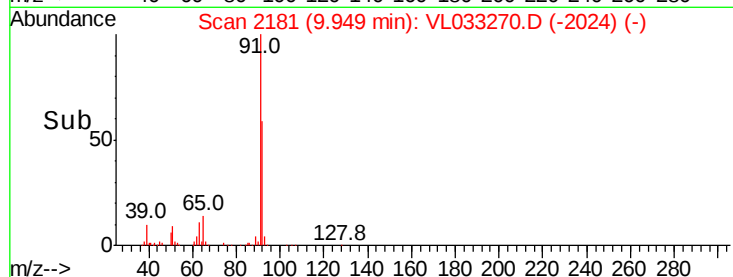
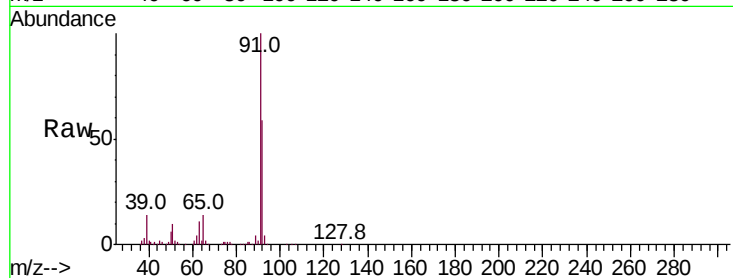
92 58.8 47.7 71.5

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#54

1,2-Dibromoethane

Concen: 9.981 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. 0.00 min

Lab File: VL033270.D

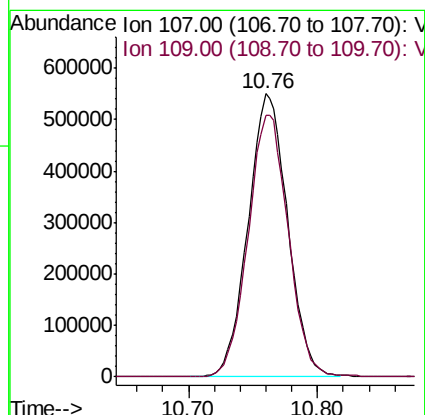
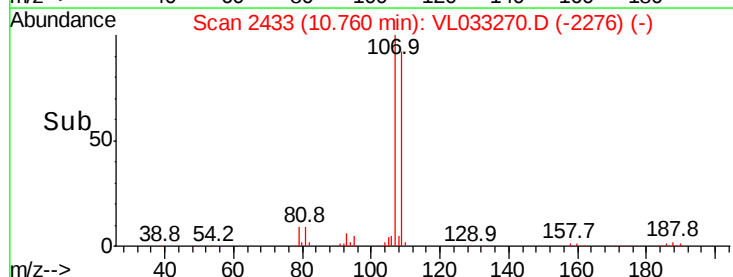
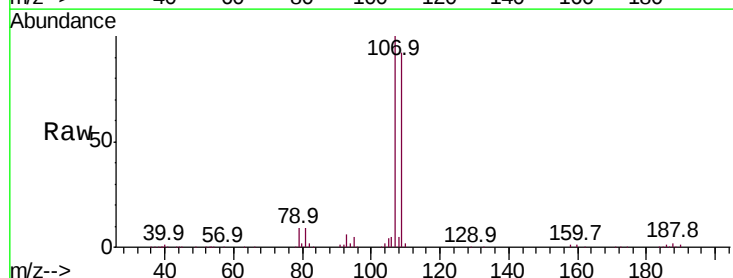
Acq: 9 Mar 2019 00:02

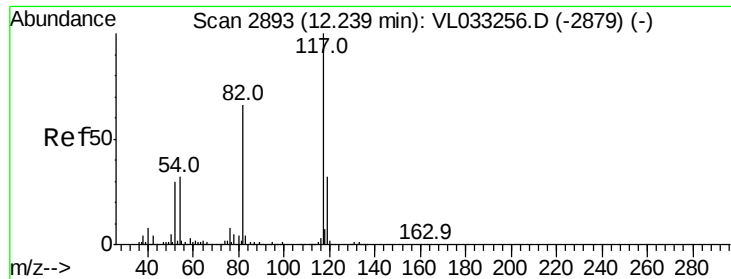
Tgt Ion: 107 Resp: 1173160

Ion Ratio Lower Upper

107 100

109 92.3 73.9 110.9





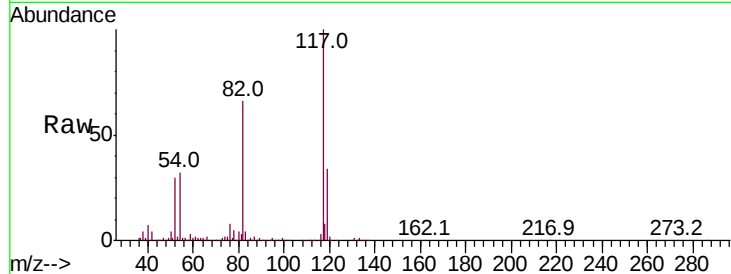
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv m  
RT: 12.24 min Scan# 2894  
Delta R.T. 0.00 min  
Lab File: VL033270.D  
Acq: 9 Mar 2019 00:02

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

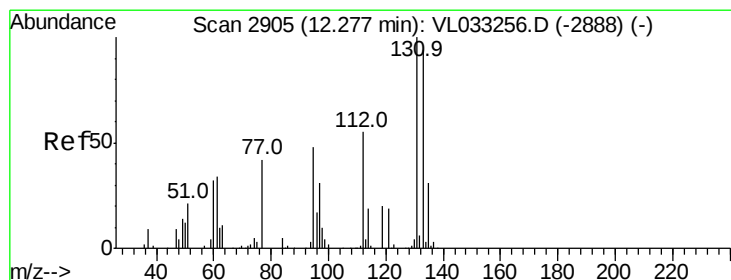
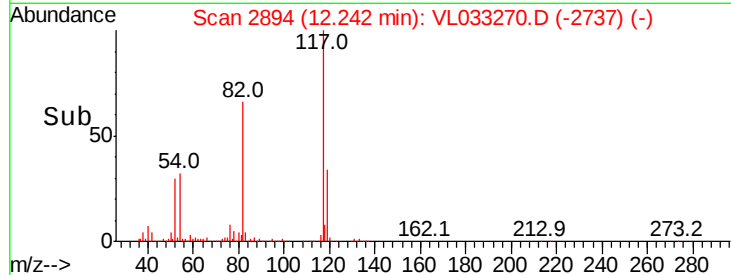
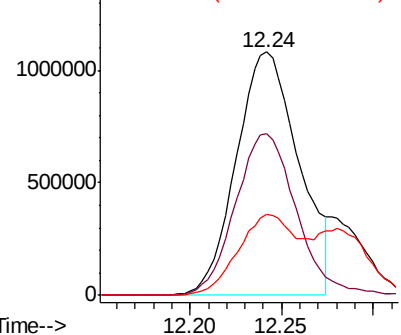
Tot Ion:117 Resp: 2571757  
Ion Ratio Lower Upper  
117 100  
82 65.1 52.2 78.4  
119 29.9 43.4 65.2#

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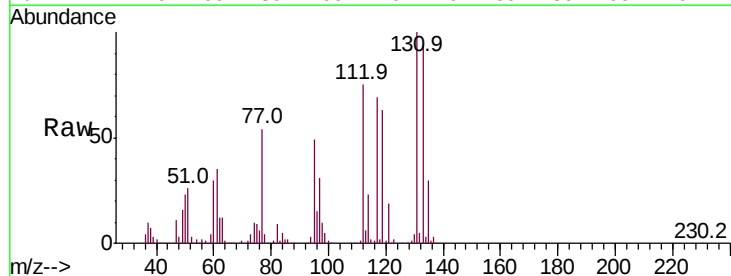


Abundance Ion 117.10 (116.80 to 117.80): V  
Ion 82.10 (81.80 to 82.80): VL0  
Ion 119.10 (118.80 to 119.80): V

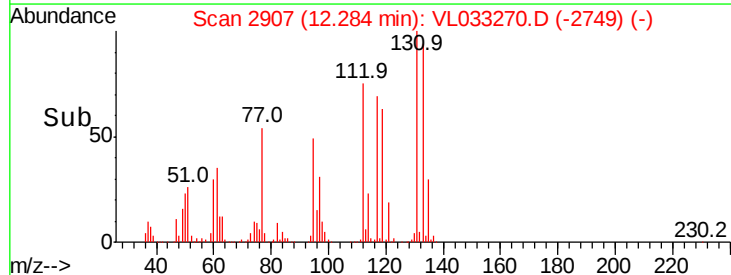
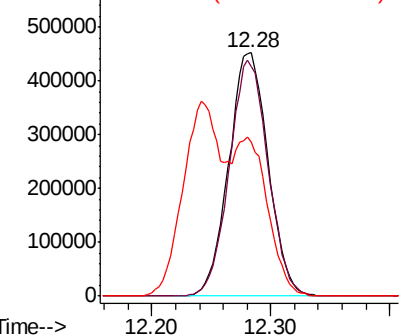


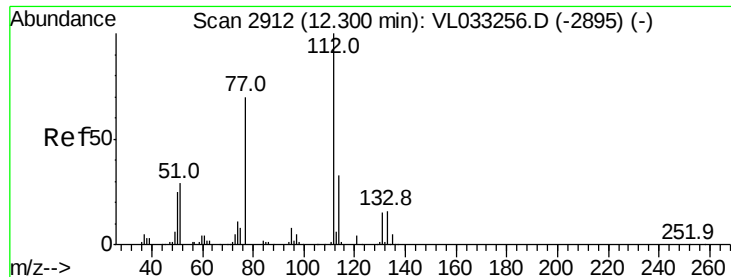
#56  
1,1,1,2-Tetrachloroethane  
Concen: 9.599 ppbv  
RT: 12.28 min Scan# 2907  
Delta R.T. 0.01 min  
Lab File: VL033270.D  
Acq: 9 Mar 2019 00:02

Tgt Ion:131 Resp: 1033353  
Ion Ratio Lower Upper  
131 100  
133 95.9 76.3 114.5  
119 62.3 109.2 163.8#



Abundance Ion 131.00 (130.70 to 131.70): V  
Ion 133.00 (132.70 to 133.70): V  
Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 9.306 ppbv

RT: 12.30 min Scan# 2913

Delta R.T. 0.00 min

Lab File: VL033270.D

Acq: 9 Mar 2019 00:02

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:112 Resp: 1755016

Ion Ratio Lower Upper

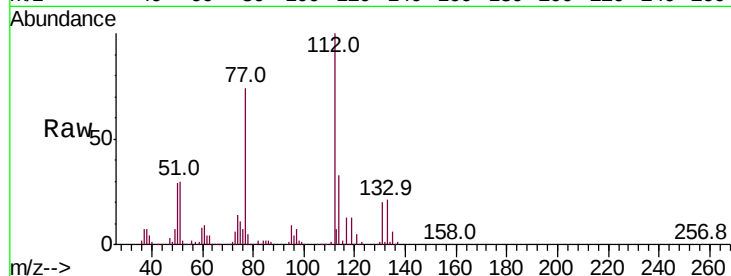
112 100

77 74.0 56.8 85.2

114 33.3 29.5 36.1

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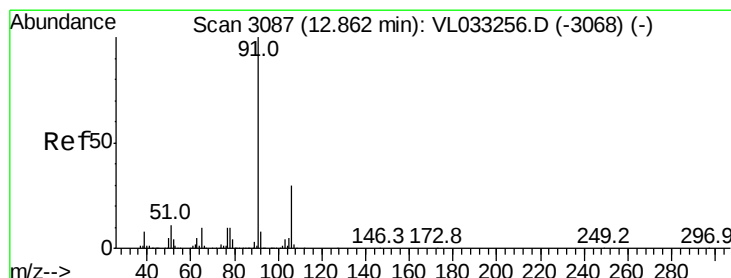
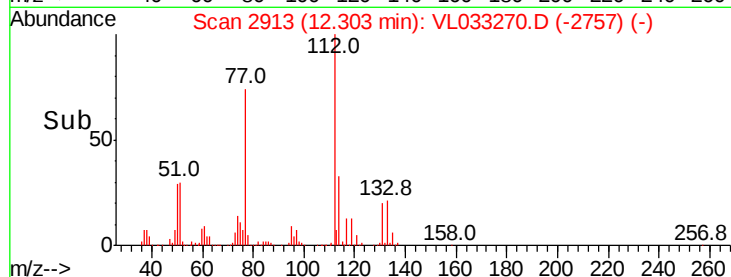
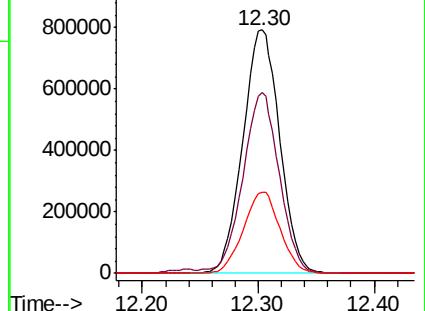
MMDadoda  
3/11/2019 10:10:31 AM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 9.705 ppbv

RT: 12.87 min Scan# 3088

Delta R.T. 0.00 min

Lab File: VL033270.D

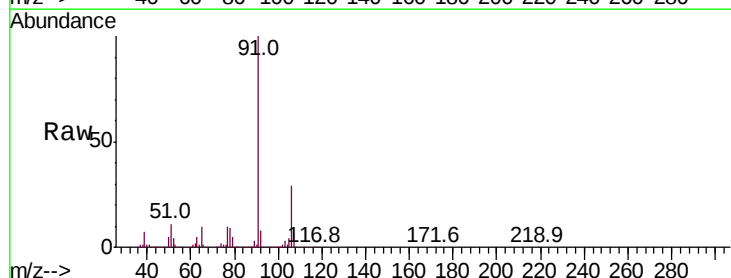
Acq: 9 Mar 2019 00:02

Tgt Ion: 91 Resp: 3376976

Ion Ratio Lower Upper

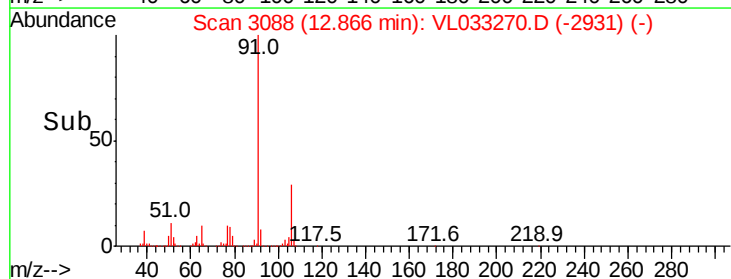
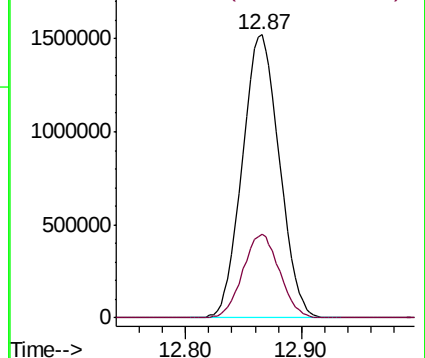
91 100

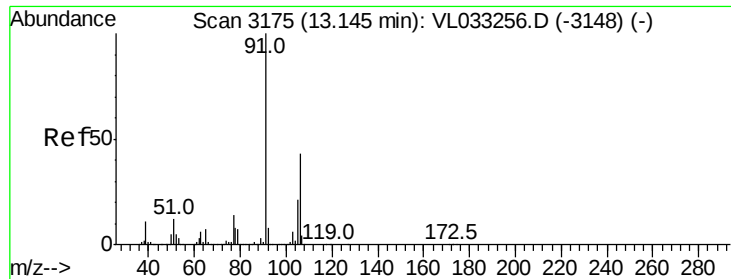
106 29.4 23.7 35.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





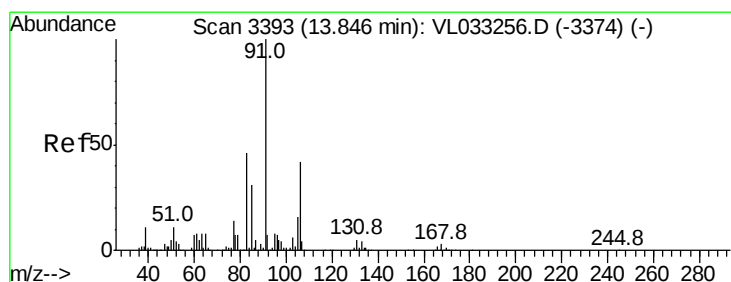
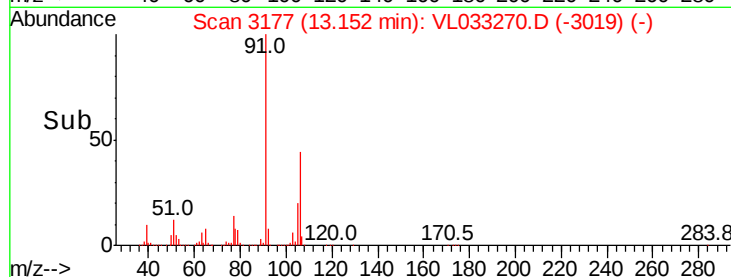
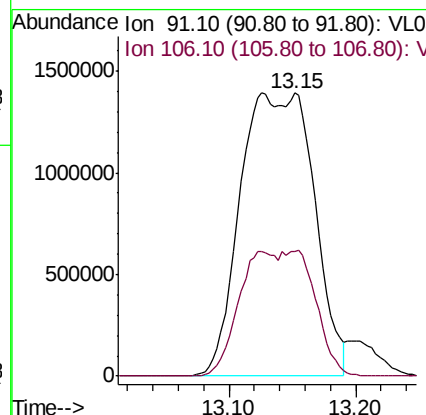
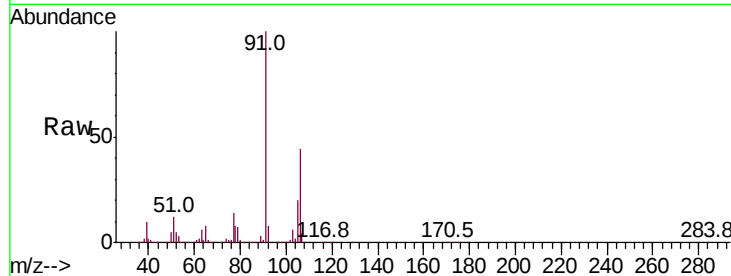
#59  
m/p-Xylene  
Concen: 17.782 ppbv m  
RT: 13.15 min Scan# 3177  
Delta R.T. 0.01 min  
Lab File: VL033270.D  
Acq: 9 Mar 2019 00:02

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Tot Ion: 91 Resp: 5601530  
Ion Ratio Lower Upper  
91 100  
106 44.3 35.0 52.4

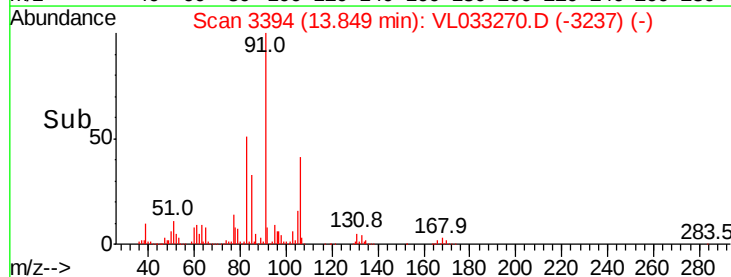
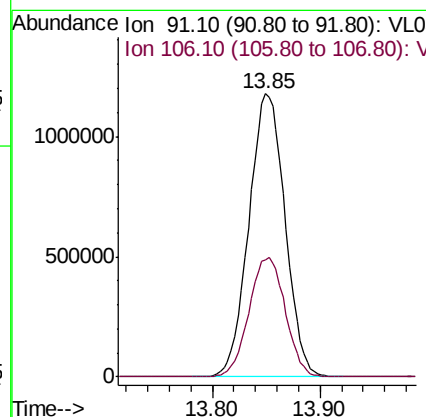
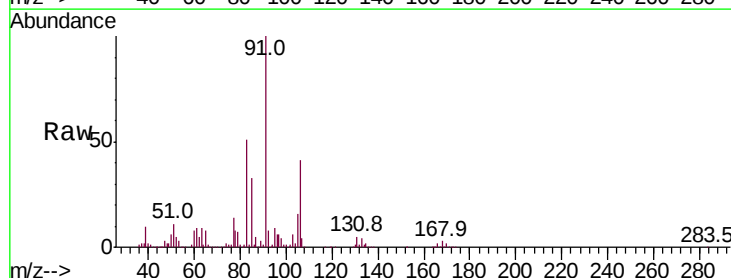
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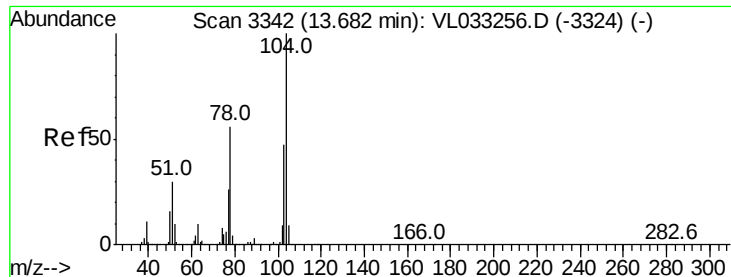
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3/11/2019 10:10:31 AM



#60  
o-Xylene  
Concen: 8.981 ppbv  
RT: 13.85 min Scan# 3394  
Delta R.T. 0.00 min  
Lab File: VL033270.D  
Acq: 9 Mar 2019 00:02

Tgt Ion: 91 Resp: 2739225  
Ion Ratio Lower Upper  
91 100  
106 42.4 21.1 63.4





#61

Stvrene

Concen: 9.809 ppbv

RT: 13.69 min Scan# 3343

Delta R.T. 0.00 min

Lab File: VL033270.D

Acq: 9 Mar 2019 00:02

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:104 Resp: 2035527

Ion Ratio Lower Upper

104 100

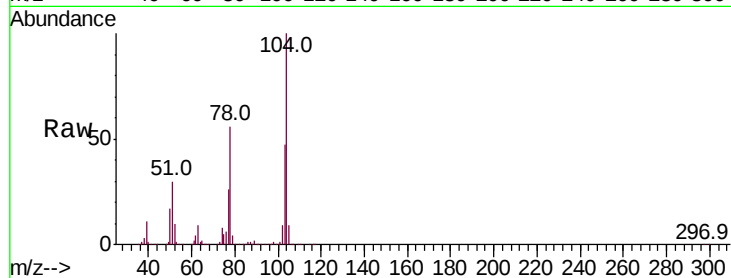
78 54.9 43.9 65.9

103 47.6 38.3 57.5

Manual Integrations  
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MMDadoda

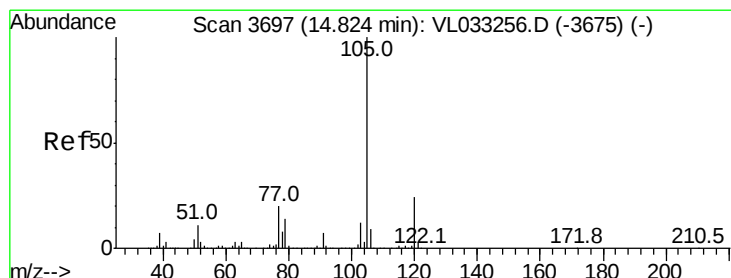
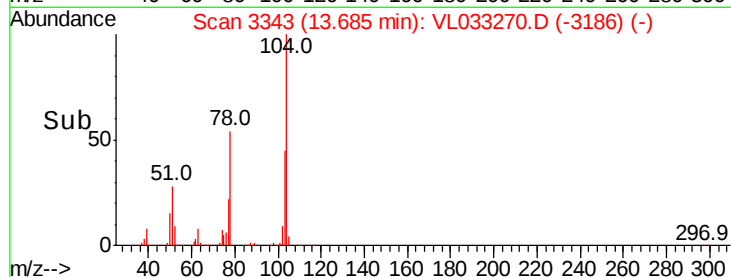
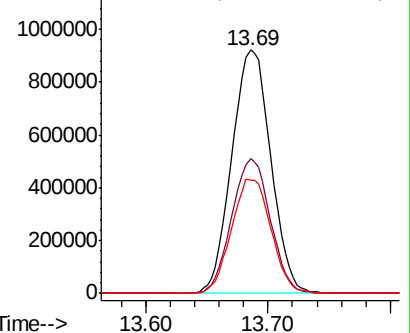
3/11/2019 10:10:31 AM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 9.398 ppbv

RT: 14.83 min Scan# 3698

Delta R.T. 0.00 min

Lab File: VL033270.D

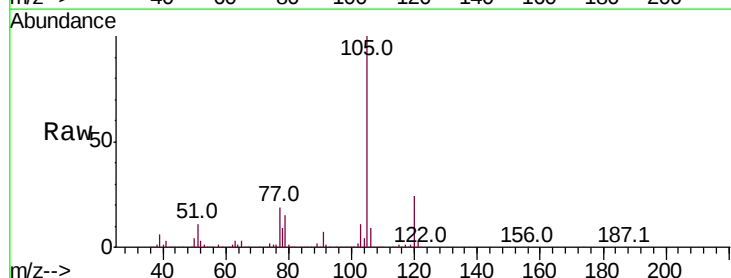
Acq: 9 Mar 2019 00:02

Tgt Ion:105 Resp: 3827712

Ion Ratio Lower Upper

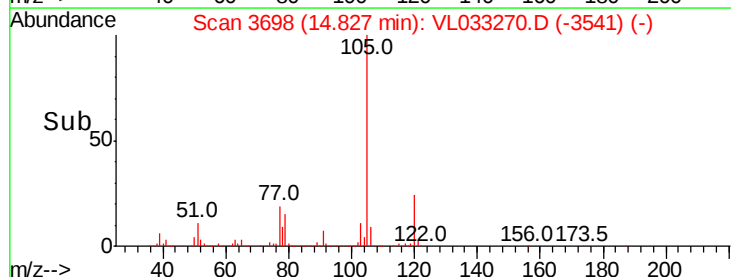
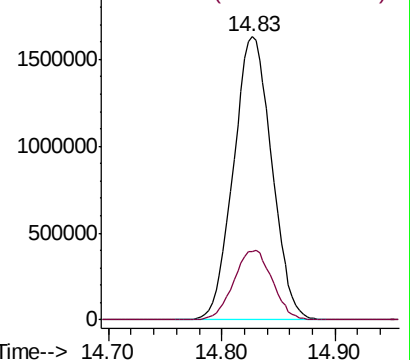
105 100

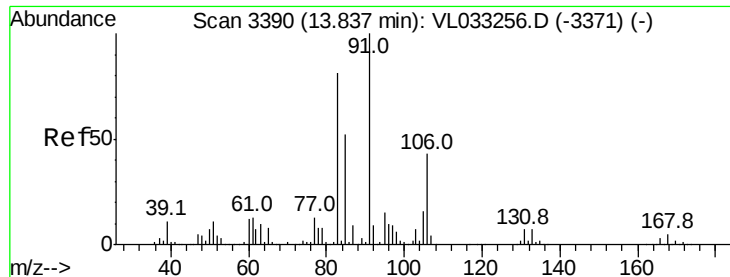
120 24.8 19.7 29.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





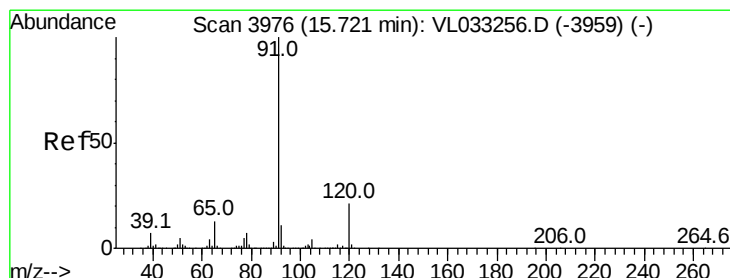
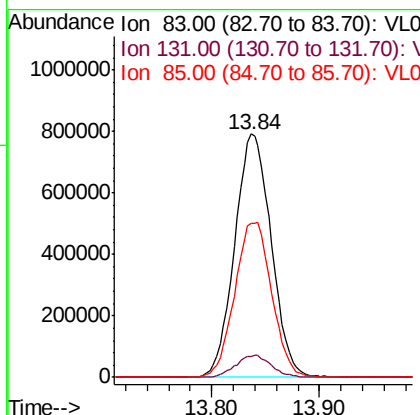
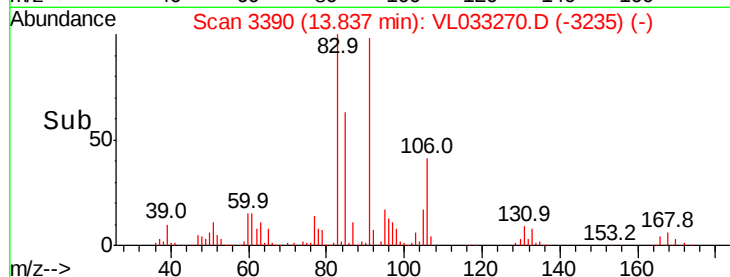
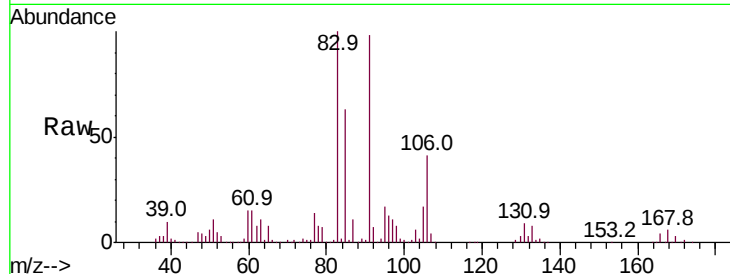
#63  
1,1,2,2-Tetrachloroethane  
Concen: 9.503 ppbv  
RT: 13.84 min Scan# 3390  
Delta R.T. -0.00 min  
Lab File: VL033270.D  
Acq: 9 Mar 2019 00:02

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Tot Ion: 83 Resp: 1864365  
Ion Ratio Lower Upper  
83 100  
131 9.0 4.7 14.0  
85 64.5 32.4 97.0

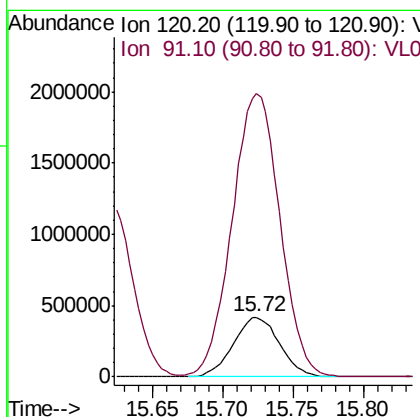
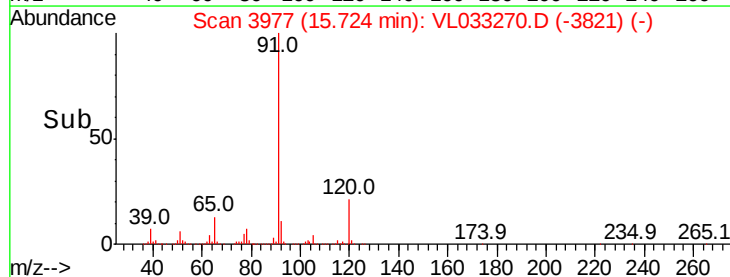
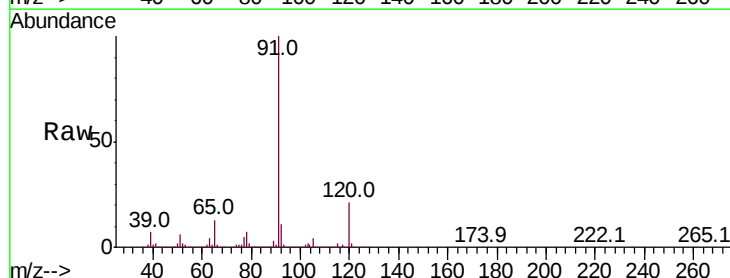
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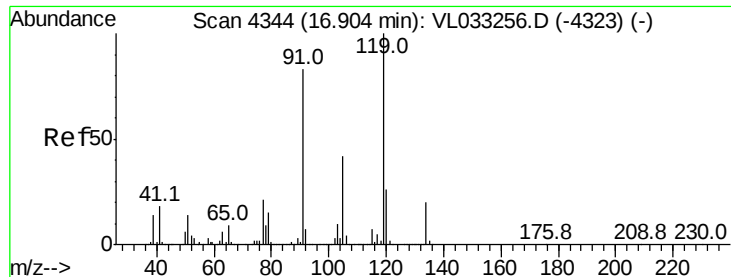
MMDadoda  
3/11/2019 10:10:31 AM



#64  
n-propylbenzene  
Concen: 9.660 ppbv  
RT: 15.72 min Scan# 3977  
Delta R.T. 0.00 min  
Lab File: VL033270.D  
Acq: 9 Mar 2019 00:02

Tgt Ion:120 Resp: 962100  
Ion Ratio Lower Upper  
120 100  
91 491.7 392.8 589.2





#65

tert-Butylbenzene

Concen: 9.641 ppbv

RT: 16.91 min Scan# 4345

Delta R.T. 0.00 min

Lab File: VL033270.D

Acq: 9 Mar 2019 00:02

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:119 Resp: 3302617

Ion Ratio Lower Upper

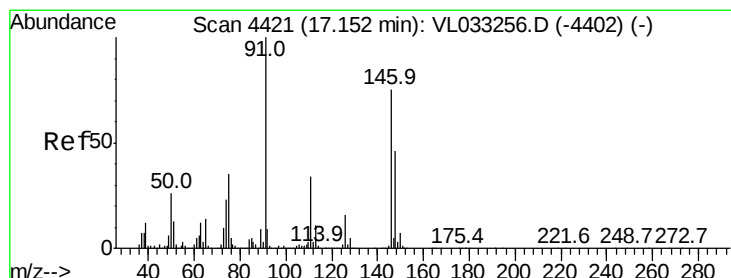
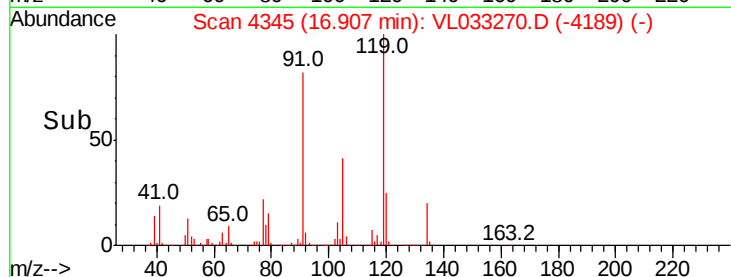
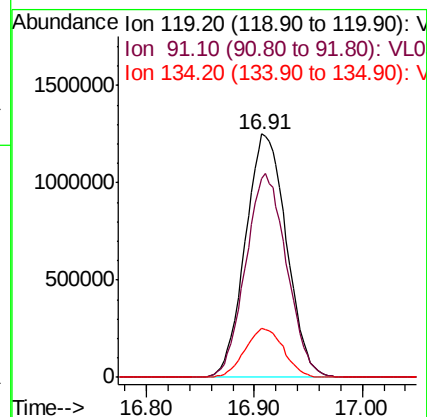
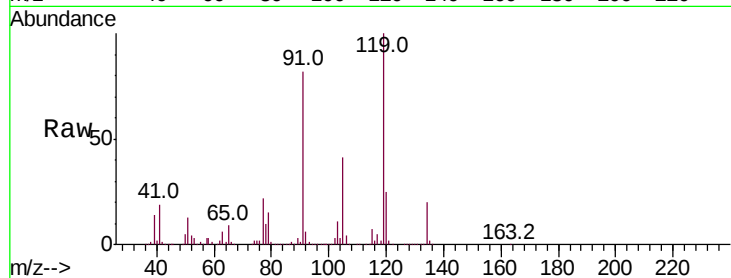
119 100

91 83.8 67.3 100.9

134 19.1 15.5 23.3

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MMDadoda  
3/11/2019 10:10:31 AM



#66

Benzyl Chloride

Concen: 13.125 ppbv

RT: 17.16 min Scan# 4423

Delta R.T. 0.01 min

Lab File: VL033270.D

Acq: 9 Mar 2019 00:02

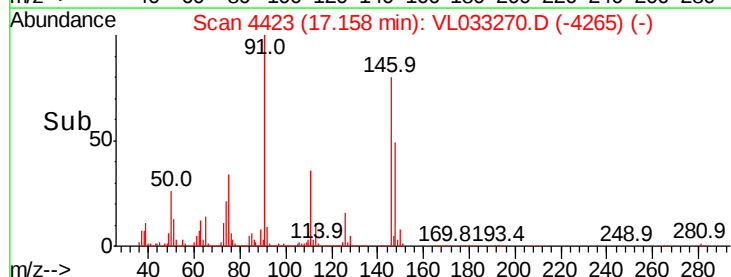
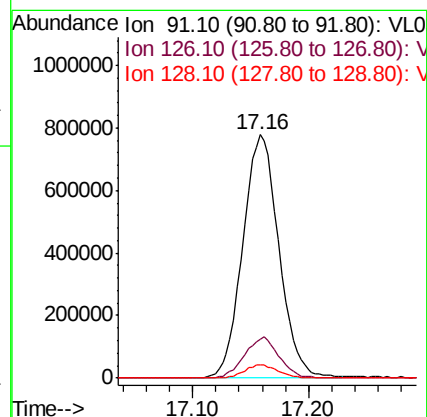
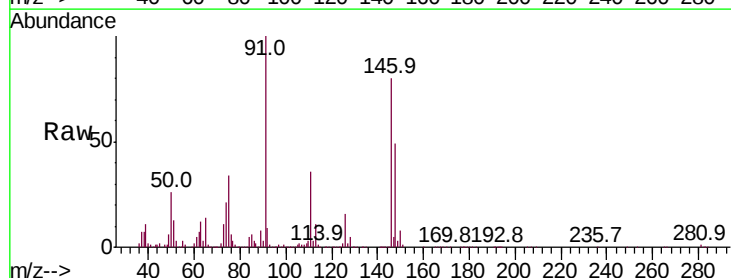
Tgt Ion: 91 Resp: 1684631

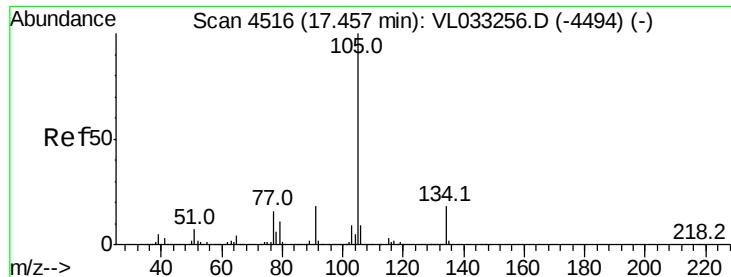
Ion Ratio Lower Upper

91 100

126 16.2 13.0 19.6

128 5.2 4.2 6.2





#67

sec-Butylbenzene

Concen: 9.642 ppbv

RT: 17.46 min Scan# 4517

Delta R.T. 0.00 min

Lab File: VL033270.D

Acq: 9 Mar 2019 00:02

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 4695733

Ion Ratio Lower Upper

105 100

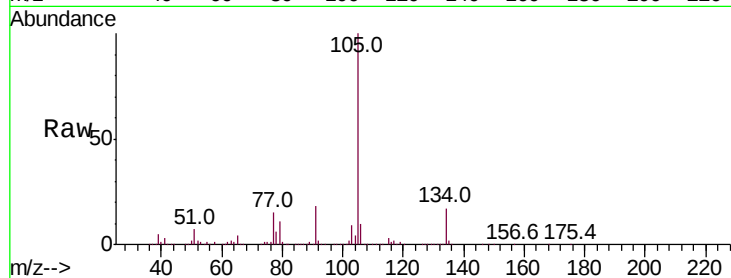
134 17.8 14.0 21.0

Manual Integrations

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.46

2000000

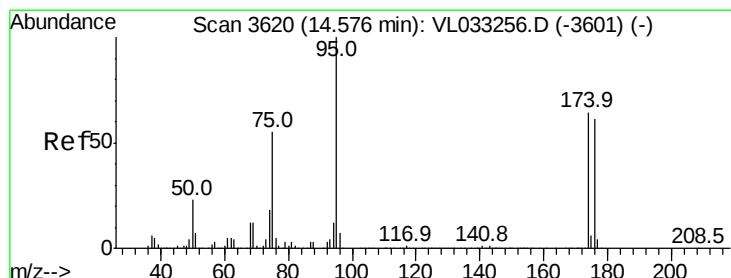
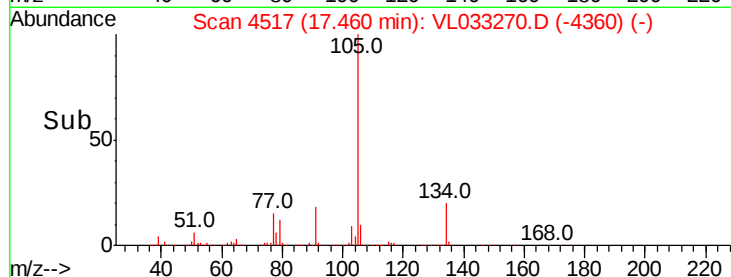
1500000

1000000

500000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.520 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. -0.00 min

Lab File: VL033270.D

Acq: 9 Mar 2019 00:02

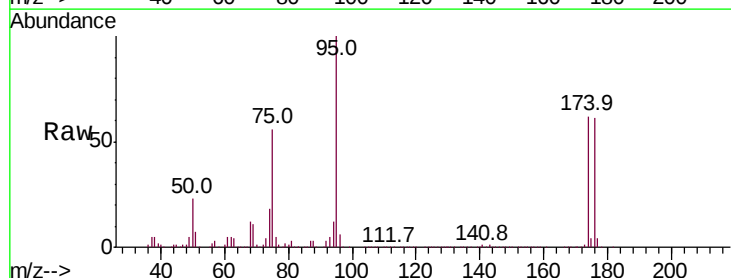
Tgt Ion: 95 Resp: 1964984

Ion Ratio Lower Upper

95 100

174 64.7 51.7 77.5

175 4.6 3.8 5.8



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

1200000

1000000

800000

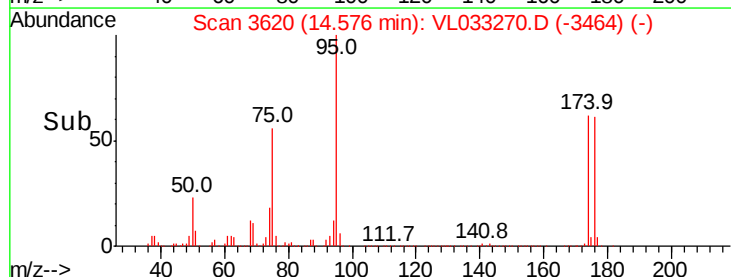
600000

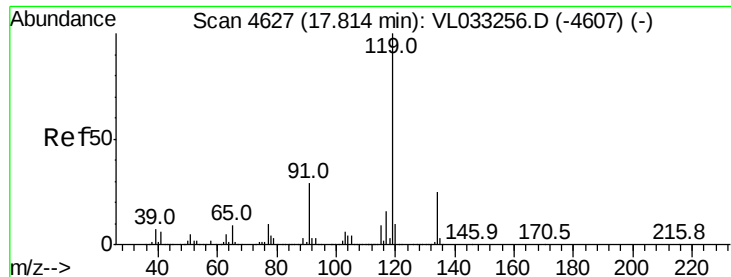
400000

200000

0

Time-->





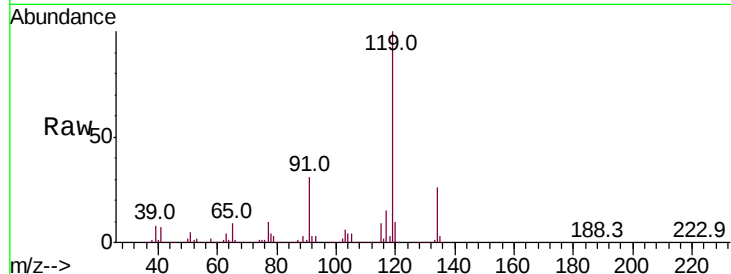
#69  
p-Isopropyltoluene  
Concen: 9.705 ppbv  
RT: 17.82 min Scan# 4628  
Delta R.T. 0.00 min  
Lab File: VL033270.D  
Acq: 9 Mar 2019 00:02

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

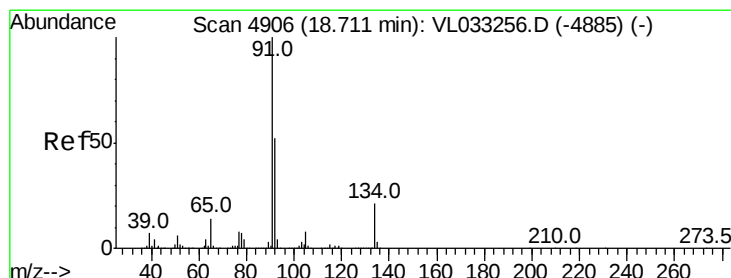
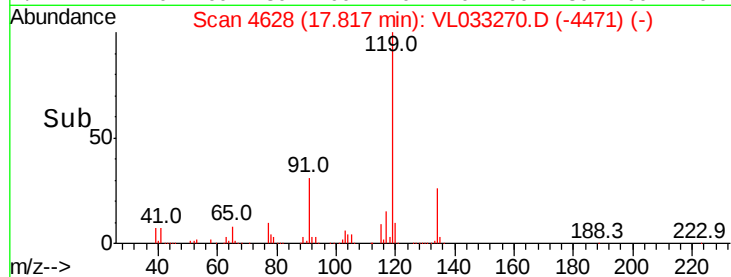
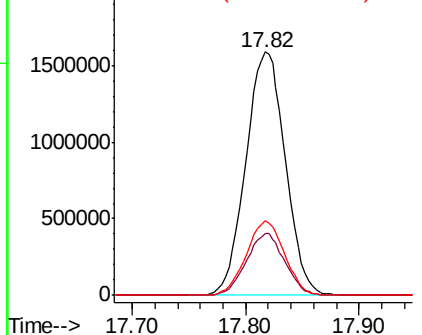
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 24.9  | 19.8  | 29.8  |
| 91      | 30.0  | 23.9  | 35.9  |

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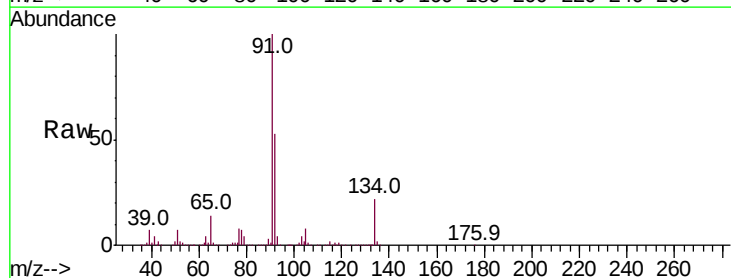


Abundance Ion 119.10 (118.80 to 119.80): V  
Ion 134.20 (133.90 to 134.90): V  
Ion 91.10 (90.80 to 91.80): V

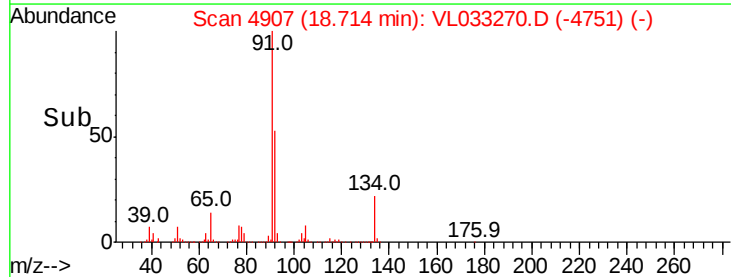
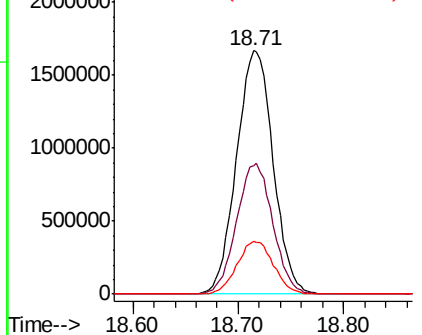


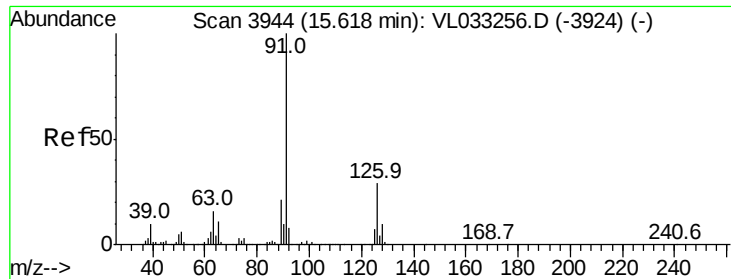
#70  
n-Butylbenzene  
Concen: 9.372 ppbv  
RT: 18.71 min Scan# 4907  
Delta R.T. 0.00 min  
Lab File: VL033270.D  
Acq: 9 Mar 2019 00:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 53.3  | 42.6  | 63.8  |
| 134     | 21.7  | 17.3  | 25.9  |



Abundance Ion 91.10 (90.80 to 91.80): V  
Ion 92.10 (91.80 to 92.80): V  
Ion 134.20 (133.90 to 134.90): V





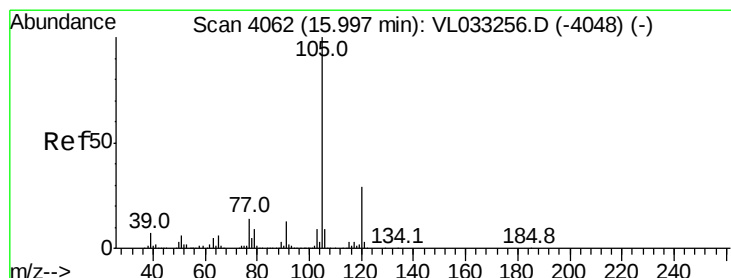
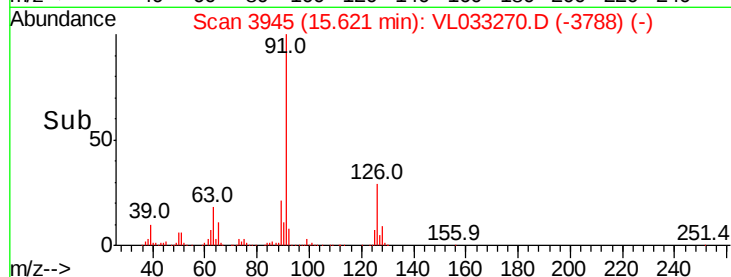
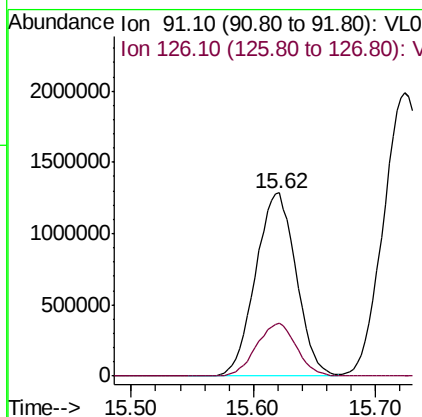
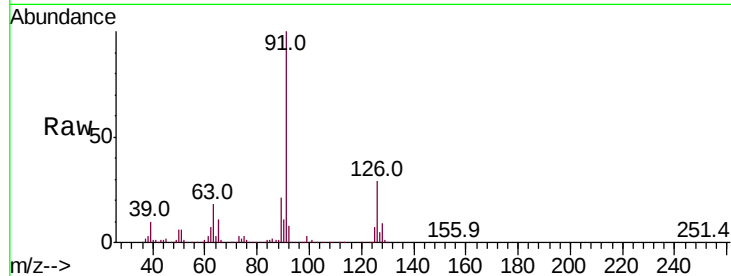
#71  
 2-Chlorotoluene  
 Concen: 9.721 ppbv  
 RT: 15.62 min Scan# 3945  
 Delta R.T. 0.00 min  
 Lab File: VL033270.D  
 Acq: 9 Mar 2019 00:02

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Tot Ion: 91 Resp: 2962428  
 Ion Ratio Lower Upper  
 91 100  
 126 28.5 11.7 46.9

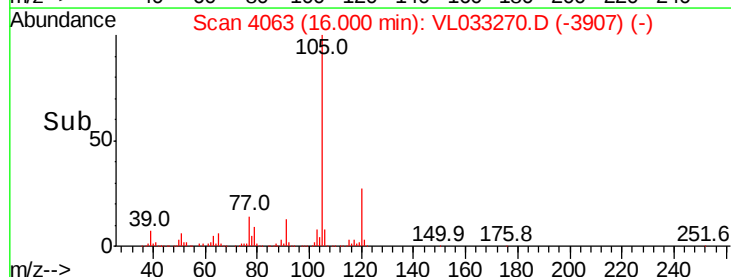
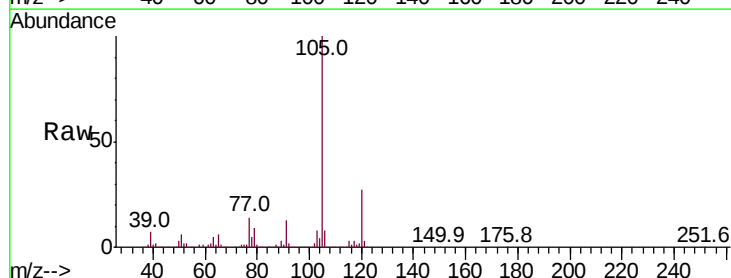
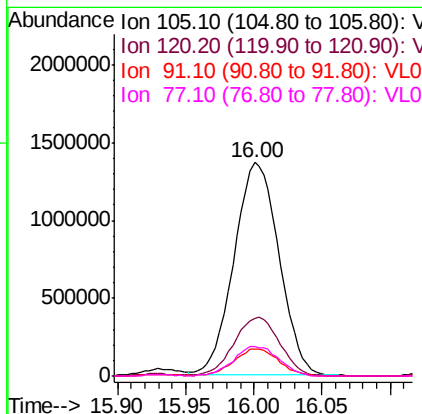
Manual Integrations  
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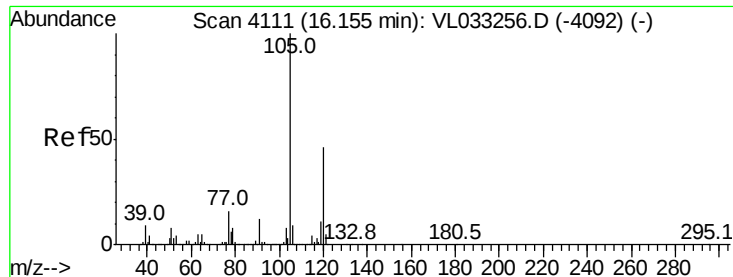
MMDadoda  
 3/11/2019 10:10:31 AM



#72  
 4-Ethyltoluene  
 Concen: 9.903 ppbv  
 RT: 16.00 min Scan# 4063  
 Delta R.T. 0.00 min  
 Lab File: VL033270.D  
 Acq: 9 Mar 2019 00:02

Tgt Ion:105 Resp: 3145092  
 Ion Ratio Lower Upper  
 105 100  
 120 28.0 22.9 34.3  
 91 12.8 10.4 15.6  
 77 14.1 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 9.921 ppbv

RT: 16.16 min Scan# 4113

Delta R.T. 0.01 min

Lab File: VL033270.D

Acq: 9 Mar 2019 00:02

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 3001740

Ion Ratio Lower Upper

105 100

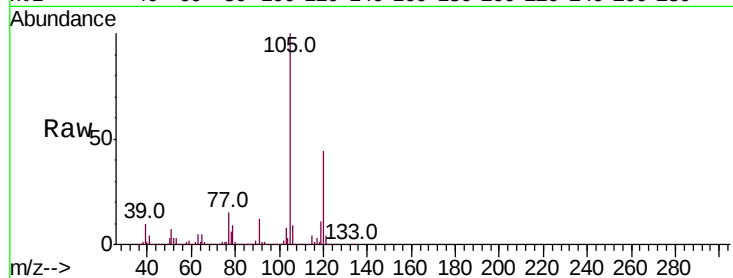
120 44.5 36.6 55.0

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.16

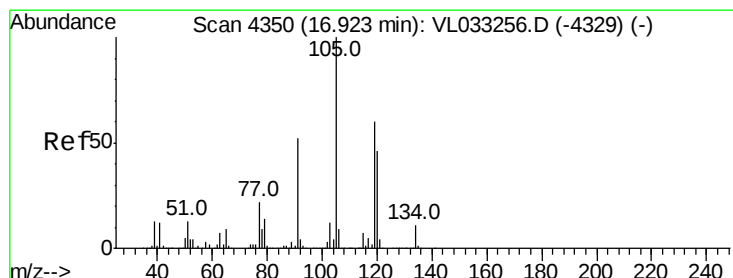
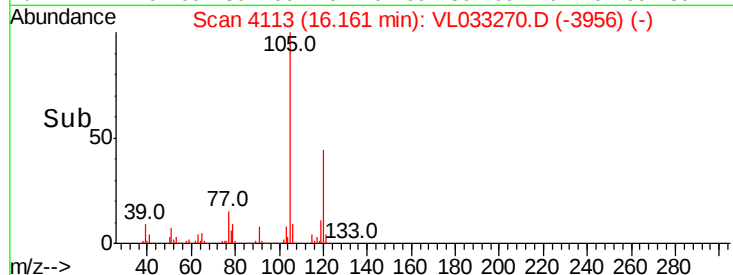
1500000

1000000

500000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 9.644 ppbv

RT: 16.93 min Scan# 4352

Delta R.T. 0.01 min

Lab File: VL033270.D

Acq: 9 Mar 2019 00:02

Tgt Ion:105 Resp: 3036773

Ion Ratio Lower Upper

105 100

120 45.9 36.7 55.1

91 45.0 42.1 63.1

77 21.9 17.8 26.6

Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

2000000

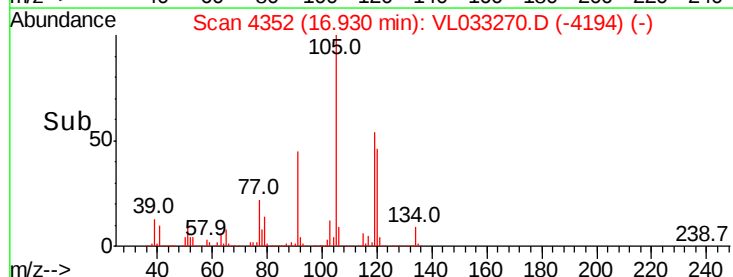
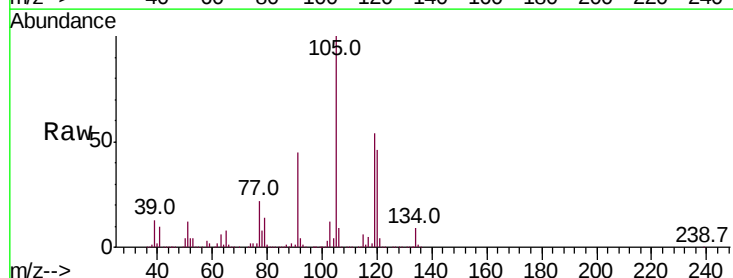
1500000

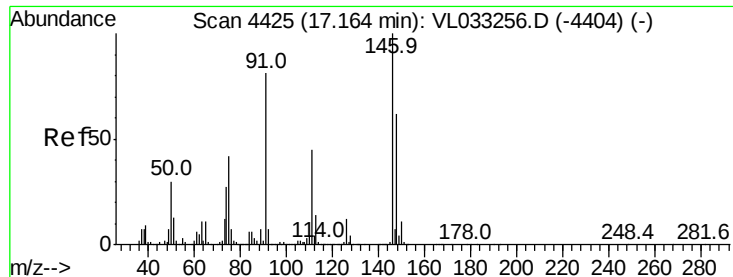
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500000

0

Time-->





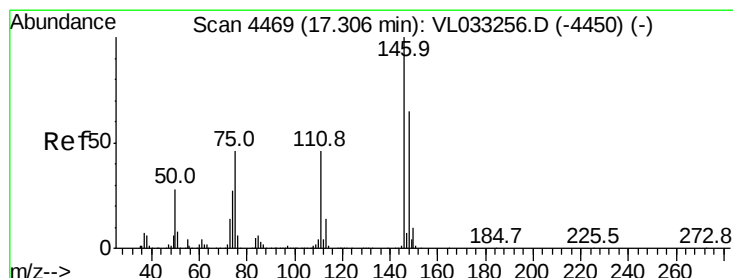
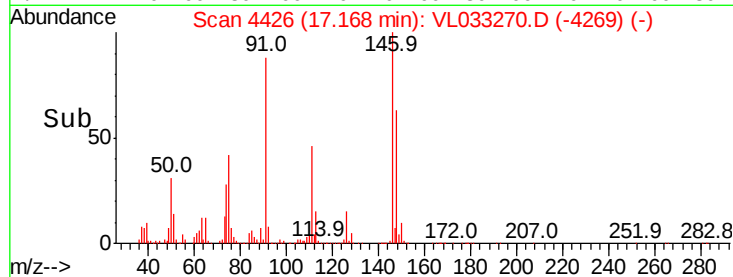
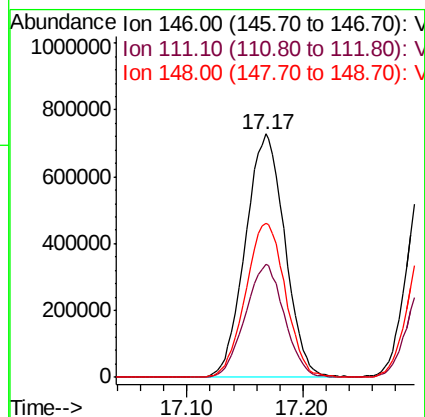
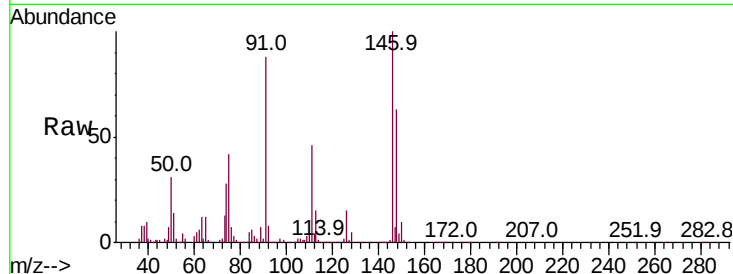
#75  
 1,3-Dichlorobenzene  
 Concen: 9.272 ppbv  
 RT: 17.17 min Scan# 4426  
 Delta R.T. 0.00 min  
 Lab File: VL033270.D  
 Acq: 9 Mar 2019 00:02

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Tot Ion:146 Resp: 1725269  
 Ion Ratio Lower Upper  
 146 100  
 111 45.8 22.9 68.7  
 148 63.8 31.6 94.7

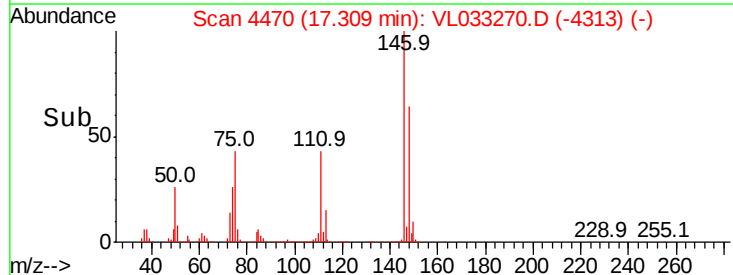
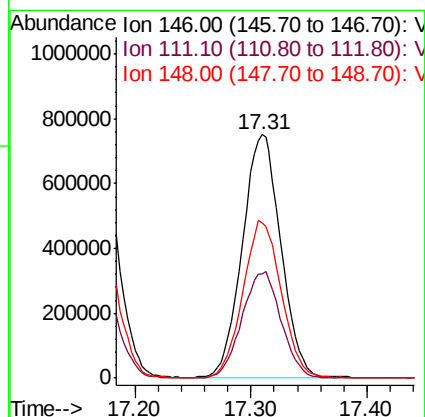
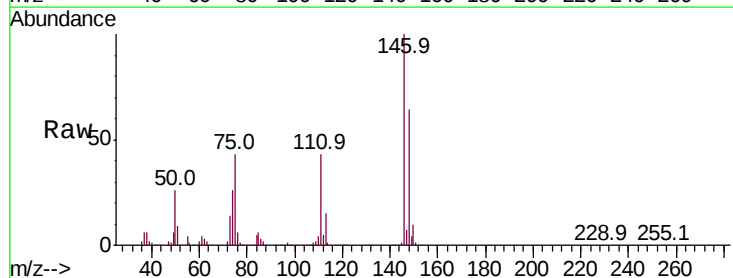
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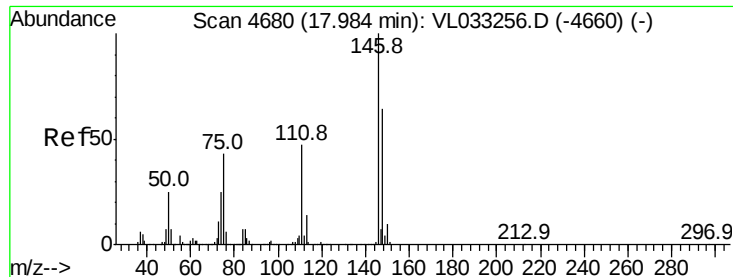
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#76  
 1,4-Dichlorobenzene  
 Concen: 9.483 ppbv  
 RT: 17.31 min Scan# 4470  
 Delta R.T. 0.00 min  
 Lab File: VL033270.D  
 Acq: 9 Mar 2019 00:02

Tgt Ion:146 Resp: 1727906  
 Ion Ratio Lower Upper  
 146 100  
 111 44.6 22.6 67.7  
 148 64.8 32.3 96.9





#77

1,2-Dichlorobenzene

Concen: 9.242 ppbv

RT: 17.99 min Scan# 4682

Delta R.T. 0.01 min

Lab File: VL033270.D

Acq: 9 Mar 2019 00:02

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 1655561

Ion Ratio Lower Upper

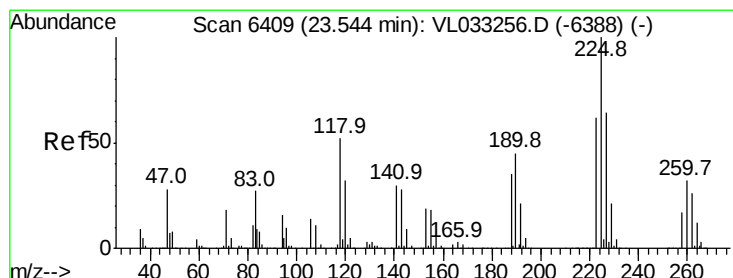
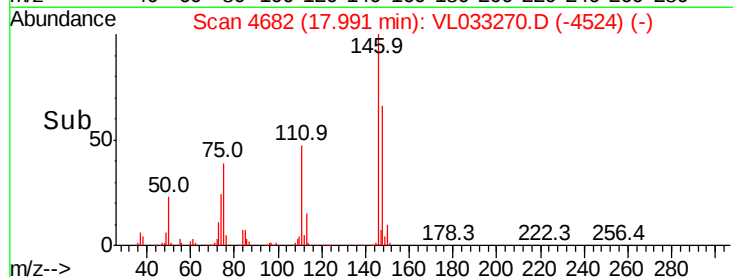
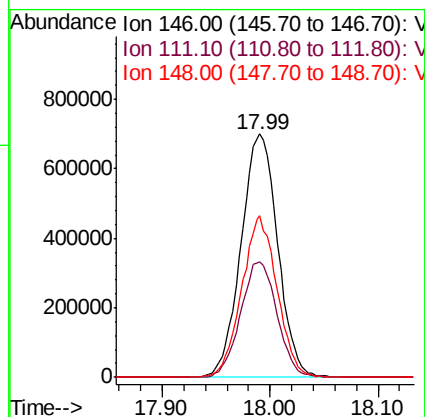
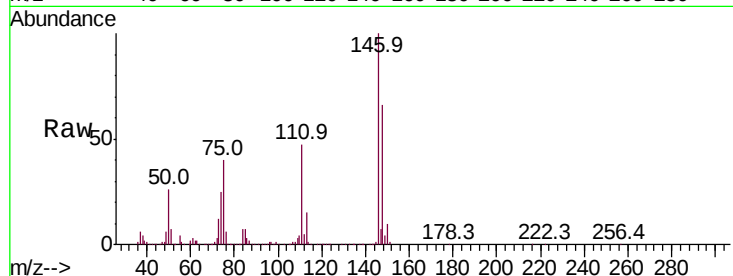
146 100

111 47.3 23.8 71.2

148 63.9 32.0 96.2

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#78

Hexachloro-1,3-Butadiene

Concen: 9.759 ppbv

RT: 23.55 min Scan# 6410

Delta R.T. 0.00 min

Lab File: VL033270.D

Acq: 9 Mar 2019 00:02

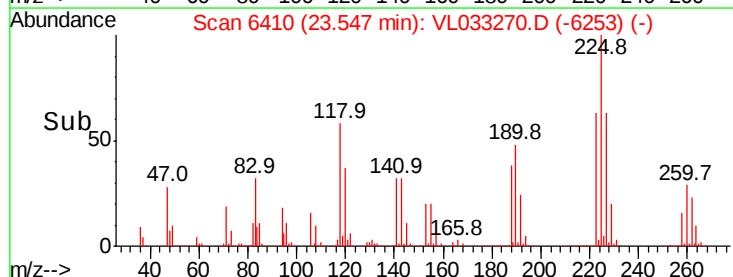
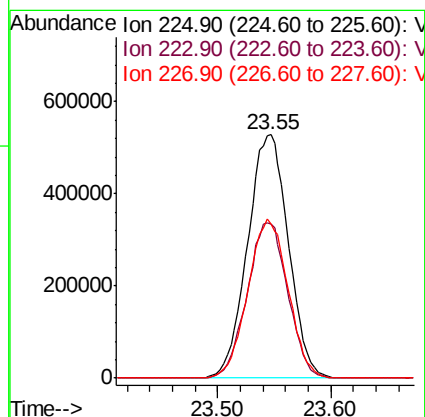
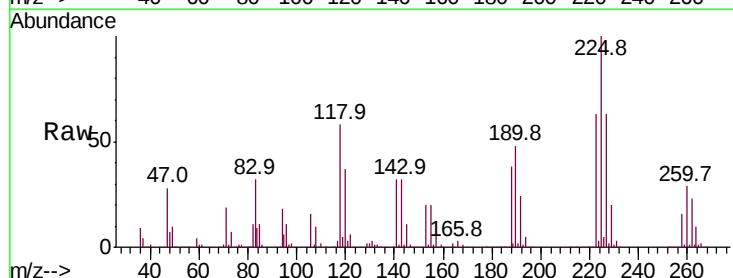
Tgt Ion:225 Resp: 1324206

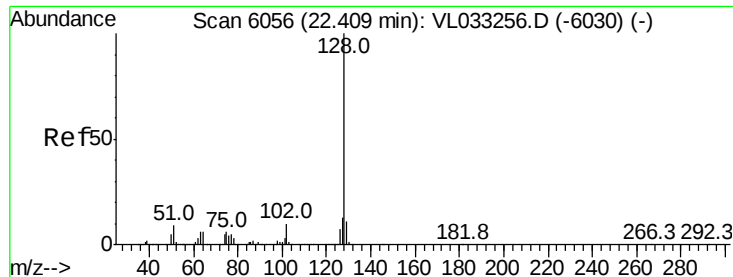
Ion Ratio Lower Upper

225 100

223 63.5 50.4 75.6

227 64.1 51.4 77.0





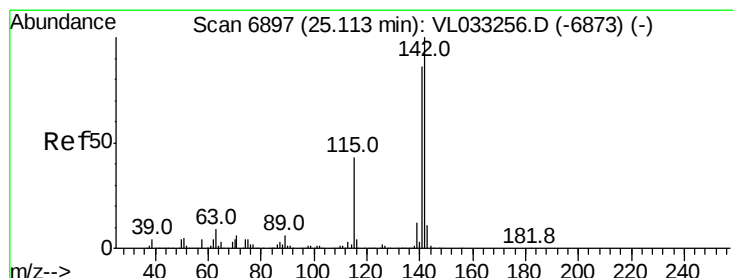
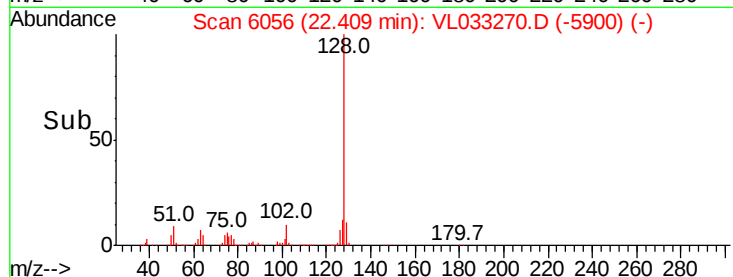
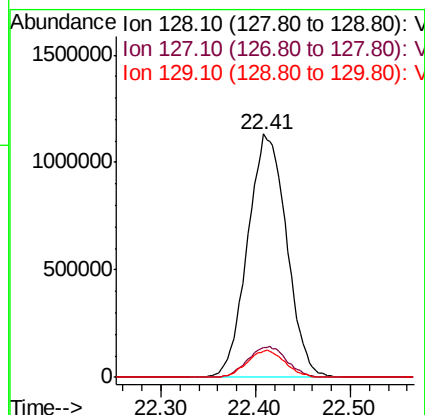
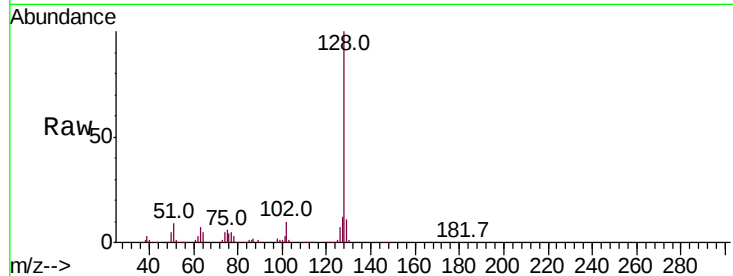
#79  
Naphthalene  
Concen: 9.430 ppbv  
RT: 22.41 min Scan# 6056  
Delta R.T. -0.00 min  
Lab File: VL033270.D  
Acq: 9 Mar 2019 00:02

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

|             |               |       |  |
|-------------|---------------|-------|--|
| Tot Ion:128 | Resp: 3237555 |       |  |
| Ion Ratio   | Lower         | Upper |  |
| 128 100     |               |       |  |
| 127 12.2    | 10.3          | 15.5  |  |
| 129 10.6    | 8.6           | 13.0  |  |

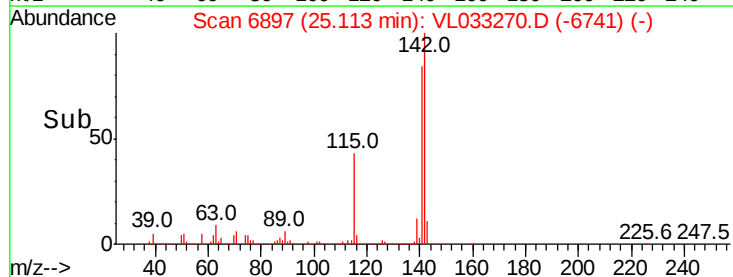
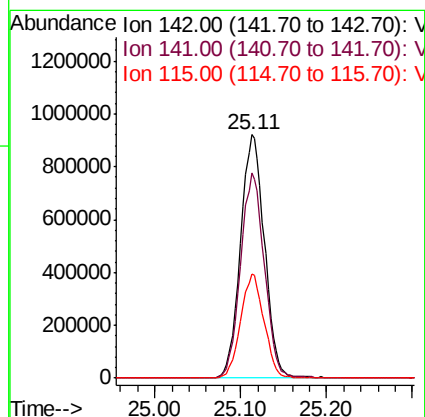
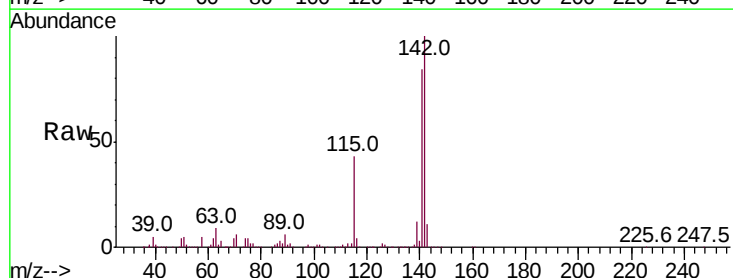
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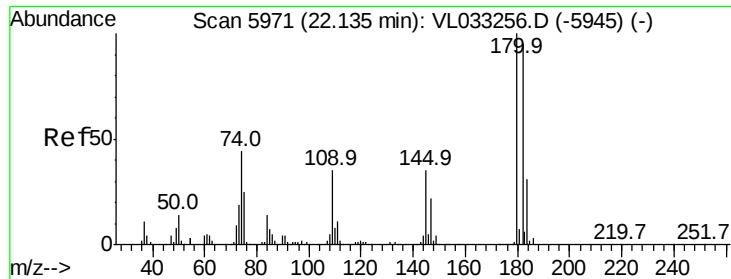
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#80  
Naphthalene, 2-methyl-  
Concen: 21.217 ppbv  
RT: 25.11 min Scan# 6897  
Delta R.T. -0.00 min  
Lab File: VL033270.D  
Acq: 9 Mar 2019 00:02

|     |         |       |         |
|-----|---------|-------|---------|
| Tgt | Ion:142 | Resp: | 1782645 |
| Ion | Ratio   | Lower | Upper   |
| 142 | 100     |       |         |
| 141 | 84.2    | 67.6  | 101.4   |
| 115 | 41.8    | 33.9  | 50.9    |





#81  
 1,2,4-Trichlorobenzene  
 Concen: 8.697 ppbv  
 RT: 22.14 min Scan# 5972  
 Delta R.T. 0.00 min  
 Lab File: VL033270.D  
 Acq: 9 Mar 2019 00:02

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.4  | 76.3  | 114.5 |
| 184     | 30.3  | 24.6  | 36.8  |

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